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**WEST BANK/GAZA**

# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance System**

## **Monthly Progress Report # 31**

**For the Month of December 2015**

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## List of Acronyms and Abbreviations

ANSI	American National Standards Institute
ASQ	American Society for Quality
AWWA	American Water Works Association
CMC	Construction Management Contractor
CQC	Contractor Quality Control
CSMP	Construction Safety and Health Management Plan
EPA	Environmental Protection Agency
EQA	Environmental Quality Authority
HSWA	Federal Hazardous and Solid Waste Amendments
HSE	Health Safety & Environmental
IADC	International Association of Drilling Contractors
ISEA	Industrial Safety Equipment Association
IQC	Indefinite Quantity Contract
ISO	International Organization for Standardization
MIC	Man in Charge
NCR	Non Conformance Report
NUC	Notice of Unsafe Conditions
OSHA	Occupational Safety and Health Administration
PA	Palestinian Authority
PWA	Palestinian Water Authority
PPE	Personal Protective Equipment
QCP	Quality Control Plan
QMS	Quality Management System
RCS	Radio Communication System
RFI	Request for Information
SCADA	Supervisory Control and Data Acquisition
TDY	Temporarily Deployed for a Year
USAID	United States Agency for International Development
WP	Work Plan
WBWD	West Bank Water Department
WEF	Water Environment Federation



# 1. DASHBOARD - INTRODUCTION AND SUMMARY

Monthly Report No.31 covers activities accomplished during the month of December 2015 and previews activities anticipated during the next month, January 2016.

## 1.1 Purpose and Background

The USAID West Bank and Gaza Infrastructure Needs Program II (INP II) is designed to support U.S. Government efforts with the peace process by improving Palestinian access to basic infrastructure and services throughout the West Bank, and if conditions and funding permit, in Gaza.

Infrastructure in the West Bank and Gaza suffers from years of neglect and lack of investment. The USAID Mission INP II focuses on the rehabilitation and construction of roads, schools, water, and wastewater projects. The USAID objective is to help the Palestinian economy by improving Palestinian access to basic infrastructure and services.

## 1.2 Objectives of Task Order 00006

The objective of this Task Order is to develop, rehabilitate and improve an existing well at Qabatiya and to install and equip that well with a new pump and appurtenant equipment. The Task Order also includes construction of a conveyance system that will connect the Qabatiya Well to Al-Zababdeh junction.

## 1.3 Work/Activity Status

The percent complete, Start and Finish information for each major component is shown on the following table.

Activity Name	Percent Complete	<u>Planned Start</u> Actual Start	<u>Planned Finish</u> Actual Finish
Preconstruction Coordination with PWA	100%	<u>14 May 2013</u> 14 May 2013	<u>18 June 2013</u> 18 June 2013
Mobilization	100%	<u>14 May 2013</u> 14 May 2013	<u>25 June 2013</u> 25 June 2013
Submittals	95%	<u>14 May 2013</u> 14 May 2013	<u>15 January 2016</u> TBD
Procurement and Delivery	98%	<u>26 August 2013</u> 26 August 2013	<u>5 January 2016</u> TBD
Construction Phase	32.41%	<u>19 June 2013</u> 19 June 2013	<u>19 January 2016</u> TBD
Post Construction Phase	0%	<u>15 January 2016</u> TBD	<u>3 February 2016</u> TBD





## 1.4 Key Information

Contract Number:	AID-294-I-00-12-00001
Task Order Number:	AID-294-TO-13-00006
Notice to Proceed:	14 May 2013
Project Original Duration:	550 Days
Project Original Completion Date:	14 November 2014
BOQ Item Original Amount:	\$6,858,760.00
Day Work Original Amount:	\$850,000.00
Original Contract Value:	\$ 7,708,760.00
Project Modified Duration:	996 Days
Project Modified Completion Date:	03 February 2016
BOQ Item Modified Amount:	\$ 10,659,519.27
Day Work Modified Amount:	\$50,475.73

## 2. PROJECT ADMINISTRATION

This Task Order is one of several task orders through which the USAID West Bank and Gaza Infrastructure Needs Program II (INP II) that is designed to improve Palestinian access to basic infrastructure and services throughout the West Bank. Some activities detailed in this report share a common base with the overall project or other Task Orders.

### 2.1. Submission of Most Recent Monthly Report

This document is the thirty-one in a series of Monthly Reports to be prepared by CDM Smith providing a summary of key project activities during consecutive monthly reporting periods.

### 2.2. Submission of Most Recent Invoices

CDM Smith submitted invoice No. 10 and is currently preparing invoice # 11. The following table is a summary of the current invoice status.

New BOQ Amount	\$10,659,519.27
New Day Works	\$50,475.73
Amount Obligated	\$10,709,995.00
Variation Orders/ Modification Amount	\$3,800,759.27
Task Order Amount ( BOQ +DW)	\$10,709,995.00
Most Recent Invoice	\$93,059.97
Invoiced to Date	\$1,945,176.32



## 2.3. Staff Information

At the end of this reporting period, 31<sup>ST</sup> December 2015, 16 team members are working on the overall project and other Task Orders in the West Bank. Following are some key Task Order and support staff for the project:

Anthony Mirabella	VP and IQC Manager
Amy O'Connell	Civil Engineer/Contract Specialist
Kevin P. Connors	Senior Project Manager
Ghassan Thaher	Task Order Manager - Key Personnel
Abdel Rahman Bakeer	Safety and Environmental – Key Personnel
Talal Mahasin	QA/QC Manager – Key Personnel
Abed Ahmad	Office Assistant/CMC Office Al-Zababdeh
Yazan Meqbel	Project Engineer
Tamadour Abu AL Rub	Document Control Officer
Mousa Anbar	Finance and Administration Manager
Renad Nafee	Finance Assistant Manager
Hiba Othman	Admin Assistant
Anas Abu Sneineh	Security and Logistic Manager
Murad Abu Nasrah	Office Assistant
Ali Odeh	Project Engineer (Scheduler and Controller)
Jamal Nazzal	Office Engineer

The following specialty staff from CDM Smith is still supporting the project activities from CDM Smith home offices in USA and spent a significant time during the reporting period in the West Bank:

- Mr. Tony Mirabella who serves as IQC Manager for the overall project and is a Senior Vice President of CDM Smith. Mr. Mirabella communicates with the West Bank team on daily basis. Mr. Mirabella is following all work activities that take place at this project in communicating via emails and daily phone calls.
- Ms. Amy O'Connell Civil and Environmental Engineer of CDM Smith continued coordinating with West Bank Staff.
- Mr. Kevin P. Connors who serves as a Senior Project Manager is communicating with West Bank Team to be updated for ongoing progress of Qabatiya Project. Moreover, Mr. Connors is directly involved in finalizing and evaluating all variation orders and modification # 1 received for the project. Mr. Connors visited QBW site on December 19<sup>TH</sup>.2015. An agreement was signed between CDM Smith and a local electro-mechanical office to support the team in electrical activities.

## 3. ACCOMPLISHMENTS

Following is a summary of significant meetings, correspondence and submittals within this reporting period.

### 3.1. Accomplishments

Following are key accomplishments for the reporting period.

#### 3.1.1. General, Overall and Project Wide

During this reporting period the metal works of the BT are ongoing. Installation of 10" overflows stainless steel elbows and funnels inside and outside of the balance tank's western and eastern



compartment are completed). Some valves and fittings related to the inlet pipes to the balance tank were installed and epoxy painted. Epoxy painting for the internal walls of the eastern basin of the balance tank is ready and for the western is ongoing. Finishing works for the living quarter and chlorination building are ongoing. The installation of the pre-cast electrical manholes and the electrical duct banks is completed. Installation of booster turbine pumps is completed (the VHS motors are not installed yet) in the presence of Morex's representative. Asphalt reinstatements at some defected areas along the conveyance system are ongoing.

Regarding the well related activities; the rig was mobilized to the well site. The existing submersible pump was removed from the well and officially handed over to its owner – Alwael Contracting Company. Fishing activity for the fallen pump was completed and the fallen pump was found at a depth of 638 mbgl. The fallen pump was successfully removed and officially handed over to WBWD in the presence of BV. The well cleaning by air lifting and surging was successfully completed. Samples of water were collected at the different stages of well cleaning. The construction of the well head and booster pump pads were completed. Moreover the concrete pads for transformers and surge tank were also completed.

Some environmental activities were done such as removal of excess materials resulting from the trench, manholes and pads excavations in the yard and from the concrete casting to the approved dumping site. Housekeeping and dust control is being implemented all the time.

Moreover, and during this reporting period; the MCC, MTS, electric panels and surge bladder tank were all delivered to Qabatiya Well Site and kept in the storage yard hired by CDM Smith.

Construction submittals continued during this reporting period. Some of the main construction submittals during this reporting period are listed hereunder and included in the attached updated submittal log.

### 3.1.2. Submittals for Task Order 00006

A summary of significant submittals follows, however a table covering all submittals for the reporting period is included in the Appendix:

- Completion of the pre-construction submittals.
- Continue of the following construction submittals:
  - Gate Valve Testing Reports (PN 16, PN40 of DN300, DN250, DN200, DN150, DN100 & DN50) and one PN40 DN150 Dismantling Joint;
  - Structural Analysis and Design of Steel Shed for Booster Pumps Area;
  - Test report on concrete compressive strength for Electrical Duct Banks ( DBS-04.1+DBP-03.7 and Electrical Pole -04, (7-day Result ) - Casted on Nov. 22, 2015 - Ref.: M/1511/373;
  - Certificate of Conformity for Sleeve Type Coupling With Harness(for QBW Pumping Station);
  - Shop Drawings for Structural Details of Booster Station Grating;
  - Test Certificates for Ball Valves;
  - Updated Risk Management Plan for November 2015;
  - Monthly updates for environmental monitoring and mitigation plan for November 2015;
  - Monthly updates for environmental monitoring and mitigation plan for November 2015;
  - Test report on concrete compressive strength for electrical duct banks (DBP-01.2, DBP-01.3 & DBS-04) – (28-day result) casted on Nov. 1, 2015 – Ref M/1511/71a;
  - Shop Drawing for External Ladders for Buildings;
  - Control Panel for Chlorination System;
  - Updated Submittal Registry (up to Nov 30, 2015);



- Certificates of Compliance and calibration for (pressure gauge, pressure snubber, pressure switch and diaphragm seal);
- Revised Mechanical Shop Drawing for the Disinfection Building;
- Updated CPM Construction Schedule;
- Final Site Layout for Qabatiya well pump station;
- CV's of Equipment Training Instructors for LV MCC, Well Pump & Chlorination System;
- Booster Pump Installation Methodology ;
- Shop Drawing for Protection of Old Well Opening;
- Draft of final Operation & maintenance manual for Qabatiya conveyance system (Volume I & II);
- Preliminary operation & maintenance manual for submersible well pump;
- Factory test reports for (MCC panel Qabatiya MTS-well common control panel ,Qabatiya PLC & DC UPS system ,MTS Qabatiya and EMCCI );
- Test Report on Concrete Compressive Strength for block Masonry Mortar of electrical building -(07-Day Result ) Ref: M/1512/33;
- Test Report on Concrete Compressive Strength for plastering Mortar of electrical building - (07-Day Result ) Ref: M/1512/32;
- Test report on concrete compressive strength for duct banks (2, 3 & 2.2), Blinding for booster station area and blinding for transformer part 2 – (28-day result). Report Ref.: M/1511/277a;
- Well Discharge Elbow and Sole Plate – Qabatiya Well;
- Mill Test Certificates for the Well Column Pipes;
- Protective Coating for Steel Pipes and Flanges;
- Test Report of Field Compaction Test (field Density) for the substrata level beneath Rig Pad – M/1512/192;
- Alternative Plumbing Fixtures;
- Preliminary operation & maintenance manual for Step-up Transformer;
- Curb Stone – Al-Fares Company – for Source Approval;
- Test reports on concrete block for walls of electrical buildings - Report Ref. No. M/1512/63 for 40x20x10 cm block;
- Test report on concrete compressive strength for Electrical Duct Banks ( DBS-04.1+DBP-03.7 and Electrical Pole -04, (28-day Result ) - Casted on Nov. 22, 2015 - Ref.: M/1511/373a;
- Galvanized metal angle (Sample)and method of installation;
- Testing Procedures for QBW System;
- Training Plan for the ESP and VSD;
- Eyewash Test & Conformity Certificate;
- Test Report of Field Compaction Test (field Density) for the Booster Station and Surge Tank Pads – M/1512/459;
- Chlorine System Training Plan;
- Startup Plan;
- Training Plan for the Booster Pump;
- Training Plan for the surge tank;
- Seismic Analysis MCC Supports;
- Seismic Analysis MV Switchgear Supports;
- Seismic Analysis for Boosters VFD Supports;
- Seismic Analysis for Well VFD Supports;
- Pre-commissioning Test Forms for Electrical & Mechanical Equipment of Qabatiya pump Station;



- Sample Support for PVC Pipes Inside Chlorination Building;
- Control Cable - Alternative;
- Morex, Inc. Local Representative and Trainer for Qabatiya Project;
- Sample of adjustable jack support for steel pipes at Qabatiya Pump Station;
- Mill certificates for galvanized steel sections of boosters pumps shed
- Site landscape
- Training Materials(PLC,HMI and Operators field training)

## 3.2. Labor and Equipment

### 3.2.1. Geo MIS

All Implementing Partners working for the West Bank and Gaza Mission track and record labor (work force) data relative to employment of Palestinian people. The Geo MIS system includes assignment of a job classification to each worker and summation of Job Days for each classification on the project. The following table includes the Geo MIS data recorded and submitted to the Mission relative to the reporting period.

- The total cumulative generated Man-Days previously 13335.26
- The total cumulative generated Man-Days current period 980.75
- The total cumulative generated Man-Days up to date are 14316.01
- Female employment generated previously 653.125
- Female employment generated current period 27
- Female employment generated up to date is 680.125
- The total cumulative previously 13988.39
- The total cumulative current period 1007.75
- The total cumulative up to date is 14996.14

### 3.2.2. Project Beneficiaries

Total number of Beneficiaries is 78,140:

- |                                     |        |                 |
|-------------------------------------|--------|-----------------|
| ▪ Number of Male Beneficiaries      | 41,623 | Male = 50.79%   |
| ▪ Number of Female Beneficiaries    | 40,328 | Female = 49.21% |
| ▪ Male Beneficiaries to Age 17      | 19,663 | 47.24%          |
| ▪ Female Beneficiaries to Age 17    | 19,051 | 47.24%          |
| ▪ Male Beneficiaries 18 to 25       | 6,568  | 15.78%          |
| ▪ Female Beneficiaries 18 to 25     | 6,364  | 15.78%          |
| ▪ Male Beneficiaries 26 and older   | 15,392 | 36.98%          |
| ▪ Female Beneficiaries 26 and older | 14,913 | 36.98%          |

### 3.2.3. Equipment

Equipment List used during the reporting period is attached in the Appendix.

## 3.3. Meetings and Correspondence with USAID

- No CO meeting was held during this reporting period.

## 3.4. Meetings and Correspondence with CMC and Subcontractors



- Thursday – Dec 10<sup>TH</sup>.2015: Biweekly meeting # 44 was held with BV in the presence of ABC at the Engineer's primary field office.
- Tuesday – Dec 15<sup>TH</sup>.2015: Technical coordination meeting with (ABC, NaserCo., IC System, SG) to discuss the progress of work during the shutdown period and the obligations on every subcontractor, Friday – Dec 18<sup>TH</sup>.2015: A meeting was held with USAID and BV in Tel Aviv.  
Saturday – Dec 19<sup>TH</sup>.2015: Technical coordination meeting with ABC to discuss the possible means to increase the work progress rate at the well site and the conveyance system..
- Monday – Dec 21<sup>ST</sup>.2015: Technical coordination meeting with (ABC, NaserCo., IC System, SG) to discuss the progress of work during the shutdown period and the current challenges that might occur.
- Tuesday – Dec 22<sup>ND</sup>.2015: Coordination meeting between PWA, CMC and CDM Smith at Maythaloun Station regarding Plan B for the water source in case the shutdown time extended behind January 17, 2016.
- Wednesday – Dec 30<sup>TH</sup>.2015: Coordination meeting between CMC, CDM Smith and USAID BV's primary field office.

### 3.5. Procurement/Subcontract Actions

- The first subcontract that has been awarded to Site Group Company for the development of Qabatiya Well includes the removal of the existing submersible pump, fishing for the fallen pump (which was successfully completed) and installation of the new submersible pump once it is delivered by pump supplier (Baker Hughes). The second subcontract to Arab Brothers Contracting Co. for the installation of the conveyance system and construct all civil, mechanical and electrical works related to Qabatiya Well Site has been amended to include the VO's received from USAID.
- A subcontract has been awarded to MOREX 71 LTD. – Institute for Non-Destructive Testing to do all the required Radiographic testing for this project.
- Purchase Orders were issued for all long lead items and equipment; control system (hardware & software), motor control center, medium voltage Switch gear, column pipes and access monitoring PVC pipes, padmount transformer, hydro-pneumatic surge tank, VFDs for booster pumps, vertical turbine booster pumps, vertical turbine deep well submersible pump and disinfection system including eyewash/shower.

### 3.6. Quality Control

The Quality Control Manager prepared updated monthly submittal register log and Quality Control Plan. He also worked with Subcontractors to review and prepare subcontractors' QC plans. Request for Information log is also prepared. Please see the attached updated logs.

During this reporting period; CDM Smith's QC/QA Manager coordinated a site visit by Building Center (BC) and HCL lab technicians on the assigned dates to:

- Tuesday – Dec 01<sup>ST</sup>.2015:
  - BC technician visited QBW site to collect core samples from the SOG of the EC building and the roof slabs of the EC & EM buildings.
  - HCL technician visited QBW site to collect concrete cubes for the barrel's casted, Samples of concrete blocks and concrete cubes for the plastering mortar of the EC & EM buildings
- Wednesday – Dec 2<sup>ND</sup>.2015: HCL technician visited QBW site to collect concrete cubes from the casting concrete for Booster Station+ Transformer (TR-02) + Metering Pad (#1).
- Saturday – Dec 5<sup>TH</sup>.2015: BC technician collected core samples from SOG & trench walls of the electrical and control building.





- Monday – Dec 7<sup>TH</sup>.2015: BV & CDM Smith jointly witnessed the 28-day concrete compressive strength test for the concrete cubes of the roof slabs of both EC & EM buildings at HCL premises located in Nablus City.
- Monday – Dec 7<sup>TH</sup>.2015: HCL technician collected samples of sand from Me'mar Batch Plant to check the sand equivalent for the piled sand.
- Saturday – Dec 19<sup>TH</sup>.2015: BC technician collected samples of core tests from the SOG of EC building and the roofs of both ECB and EM building.
- Tuesday – Dec 22<sup>ND</sup>.2015: Concrete compressive strength test for collected cores from the roof slabs of EC and EM buildings. The test is scheduled at BC located in Hebron City. HCL technician collected base coarse samples from booster station pad and surge tank's pad. HCL technician collected hot sample from delivered asphalt, and measured its temperature.
- Wednesday – Dec 23<sup>RD</sup>.2015: HCL technician collected hot sample from delivered asphalt, and measured its temperature.
- Saturday – Dec 26<sup>TH</sup>.2015: HCL technician collected samples of concrete for the southern fence wall and duct banks (Me'mar Plant).
- Sunday – Dec 27<sup>TH</sup>.2015: Concrete compressive strength test for collected cores from the roof slabs of EC and EM buildings.  
Sunday – December 27<sup>TH</sup>.2015: HCL technician (in the presence of BV's representative and CDM Smith's QC/QA Manager) visited Me'mar Batch Plant to collect sand samples for sand equivalent sampling.
- Monday – Dec 28<sup>TH</sup>.2015: BC technician collected concrete samples for the SOG of booster pump station (Me'mar Plant).
- Thursday – Dec 31<sup>ST</sup>.2015: BC technician collected samples of B-350 concrete for the well head pad.

Moreover, the CDM Smith's Quality Control Manager continued follow up inspection requests procedures and made sure that the three-phase inspection as well as the MRR (material receiving report) is being successfully implemented. Booster turbine pumps (two pieces) were officially hand over to BV through the required MRR and they were all successfully installed in the presence of Morex's Representative and under direct supervision of Engineer.

The concrete issue related to the electrical & control building (SOG and roof for EC Building and the roof slab of the electrical metering building) was handled by the Building Center lab through core testing at a different time periods. Some results were officially handed over to BV and others will be submitted once received from the lab.

In addition to that, CDM Smith's Quality Control Manager made sure that all materials and material's sample delivered and /or submitted to CMC are in line with Contract's documents and specifications.

### 3.7. Safety

Considering all activities that took place during this report period, the task order has not experienced any serious safety issues. CDM Smith as well as USAID and B&V objective is to implement a Health and Safety Program that will reduce the number of injuries, exposures, and illnesses to an absolute minimum. Our mutual goal is ZERO accidents, exposures, and injuries.

Despite of Qabatiya well site is a restricted area it has various construction activities such as excavation for buildings and implementation of electrical and mechanical utilities, therefore under this challenging condition CDM Smith and subcontractor have organized the site to comply with safety procedure and create safely work environment .

CDM smith's safety Engineer conducted Toolbox meeting in December 08, 2015 in order to inspect the safety tools that required for works inside the balancing tank and make sure that the labors and the supervisor can use these tools correctly.



CDM smith's safety engineer has updated to the new labors the works procedure in confined space (Balancing Tank) and the method of entry, exit, emergency cases, evacuation procedure, and the important of use the safety tools during the works.

CDM smith's safety Engineer conducted Toolbox meeting in December 15, 2015 in order to inspect the safety tools required for works of well pump removal and pump development and made sure that the labors and the supervisor can use these tools correctly.

CDM smith's safety engineer has browsed to the new labors the work procedure at Qabatiya Pump Station during removal of well pump and the method of entry, exit, emergency cases, evacuation procedure, and the importance of using safety tools during the works.

CDM Smith Safety Engineer has also made a plan that would divide the site into two safe and easy accessible parts; one for well development and rig, the other for construction works of Electrical Buildings.

#### **Lesson Learned?**

The prospect of getting into an accident is something no one likes to think about. From time to time again we hear our managers, supervisors or co-workers telling us to be careful, work safely and use personal protective equipment. Yet, do we really listen? We hear the words, but do we really believe we'll be the one who will have an accident?

There are those who take the safety message at work seriously, and those who do not. Safe work procedures have a purpose. Experience tells us that if we do things right, we'll complete our work correctly and safely. When personal protective equipment (PPE) is provided, this is also for good reason. PPE prevents or minimizes injury or illness to the user.

Sometimes accidents happen when you least expect them. The following provides this, along with a reminder that sometimes they do happen to us.

Lesson: CDM Smith and Subcontractor all the time reviewing the safety plan to the labors, training the new labors and check the tools, as well as masseurs for Qabatiya well project since the project has been extended and more utilities will be constructed. They continuously flowing up the housekeeping and provide the needed signs, PPE, safety tools and first aid for the site, moreover comfortable satire to balance tank roof slab has been constructed.

#### **Lesson learned 1**

Daily Inspection for the safety tools = make the work activities easier and safer for all team works.

Lesson learned 2 TIDY SITE = SAFE SITE

#### **Lesson learned 3**

Updating the labors with safety regulations and emergency No. = will reduce a/o prevent incident.

#### **Lesson learned 4**

Proper tools, wearing PPE to achieve the activities = prevents or minimizes injury or illness to the user.

#### **Lesson learned 1**

Working when feeling fatigue = may lead to serious injury or illness.

Despite that conveyance system has been almost completed and the works are restricted at Qabatiya well site more safety awareness by supporting of subcontractor will be kept during of construction of the buildings activities (excavations, concrete casting, and confined space entry inside balancing tank). The followings will be checked on Daly basis:

- Housekeeping to be maintained all time.
- Toolbox meeting for training and updating the labors.
- Periodic check of safety tools and equipment.
- Apply safety measures and mitigation plans





CDM Smith safety Engineer as part of his job is always trying to make sure that the jobsite has the basic first-aid kit and that a procedure is in place to replace expended, used or outdated items. First-aid kits are available in all CDM Smith and CMC offices as well as project vehicles.

### 3.8. Environmental

The Area surrounded by Qabatiya well is classified as agricultural; it has been planted by local farmer with seasonal vegetation. However, the pipeline was implemented along the shoulder of the high way that was constructed by the USAID few years ago. The main objective of the project is to alleviate pressing shortages in water supply services in the towns of Qabatiya & Al-Zababdeh in addition to parts of Jenin City by supporting strategic investments in water well, balancing tank, booster pumps and conveyance system. No major negative environmental impacts are envisaged since the project was invested in activities that support rehabilitation and improvements of infrastructure and service delivery. No land acquisition is required and the works constructing through the public right of way. The Potential negative impacts that were localized and limited in nature had been avoided by providing instructions in the contract documents that specifically address environmental issues in a manner acceptable by the contractor and the CMC, as well as following Good Management Practices during construction. More attention will be given to the use and disposal of hazardous chemical materials used in the construction like epoxy for water proofing works in reservoirs, chlorine used for the disinfection of water lines, and concrete additives. More attention will be taken to avoid the risk of soil erosion due to excavation activities. This is a significant impact especially in high sloped sections (If any exists).

The new main pipeline will replace the old existing one; the water discharge rate will not significantly change, thus no significant increase in wastewater amount will appear due to implementing Qabatiya project. Cesspits and septic tanks in the served communities will be adequate to carry the generated wastewater amounts.

Qabatiya project will not have any long-term adverse impacts on the natural or physical environment.

Finally by monthly basis the environmental mitigation plan was updated and submitted to CMC considering any potential for adverse impact, also environmental check list is covering any missing item that were not considering or mitigated properly.

As Qabatiya project is closed to finish as well as the activities at the well site are restricted in a finishing works of buildings and site leveling therefore the surplus materials such as paint cans concrete rubbish..etc. will be dumped as usual to the approved area.

For the well activities especially the well deployment and disinfection CDM Smith with subcontractor site Group make the required discharge pipes in order to drain the water as well as the foam to the wadi.

At the beginning of the project an environmental plan was prepared according to the project specifications and submitted to the CMC and got approved, during this reporting period some Environmental activities were done such as removal of excess materials resulting from the trench excavations in the yard and from the concrete casting to the approved dumping site, pumping out the septic tank of the temporary WC used by PWA staff at site and disposal of the sewer to approved site in addition to continuously housekeeping and dust control.



### 3.9. Public Relations

CDM Smith continued the coordination and public relations activities during the reporting period. Coordination with both Al Zababdeh and Qabatiya Municipalities is always on the highest level to resolve any issue and / or obstacle that might be encountered during the construction activities. Both Municipalities always show full cooperation and commitment to ease all obstacles and other project related issues (if any).

### 3.10. Project Permitting & Security

The location of the project in the north of the West Bank with parts of the project located in area C requires continuous coordination with civil administration to facilitate the mobility of CDM Smith and subcontractors' personnel and vehicles to the project site if checkpoints exist or if any activity needs coordination.

CDM Smith Logistics and Security Manager has regular coordination meetings with the coordination office in Beit El. CDM Smith Logistics and Security Manager is always ready to coordinate with the required authority, or with the civil administration to facilitate any difficulty that may face the project construction.

## 4. SCHEDULE

### 4.1. Progress vs. Planned

Updated CPM Schedule till end of December 2015 attached. Below is a summary of the project percentages of completion based on the latest updated schedule up to 31<sup>st</sup> December 2015,

Performance % Complete = 36.18%

Schedule % Complete= 82.02%

Float = -38 Days

Delay caused from the following;

The Cumulative delay occurred from various issues beyond the control of CDMSmith. Those issues are:

The Shutdown plan have been coordinated with and approved by PWA. Actual shutdown of the well started on 1<sup>st</sup> December 2015, while the baseline scheduled shutdown start date was on 17<sup>th</sup> November 2015

The delay in the clearance of the well pump package materials, the well pump materials arrived the port on 26<sup>th</sup> November 2015. The well pump package materials were scheduled to arrive the site on 7<sup>th</sup> December 2015.

Delay due to Security Conditions and Cement Shortage, on Nov.8<sup>th</sup> 2015, Nov.10<sup>th</sup> 2015 and December 7<sup>th</sup> 2015.

We are working with the suppliers Subcontractors and clearance agents to expedite the construction, manufacturing and shipping schedules to accommodate the delay.



## 5. OUTLOOK FOR NEXT REPORTING PERIOD

The following subsections provide information on anticipated activities through the next reporting period.

### 5.1. Planned Submission of Next Invoices

CDM Smith submitted Invoice #10. This invoice covered the activities completed to the day of invoicing, payment No. 11 expected to be submitted on January 2015.

### 5.2. Planned Activities Anticipated During January 2016

The Following activities are anticipated to be submitted, constructed or implemented during January 2016:

- Continue finishing works of the electrical buildings (metering and electrical & Control).
- Continue the finishing works of the living quarter and chlorination building. Continue submitting all required shop-drawings, submittals and requests to allow proceeding with the works at the well site.
- Finalizing installation of the metal works for the balancing tank.
- Continue working on Partial Handover for Qabatiya Conveyance System taking into consideration all CMC's comments and/or instructions.
- Continue installation of electrical cables and wires.
- Continue backfill around the balance tank and behind the retaining walls
- Construction of the remaining fence walls.
- Continue of the epoxy paint inside the tank.
- Starting the painting of the external walls of the tank.
- Leveling works for the yard.
- Continue installation for mechanical valves and fittings related to the above=grade metering stations, over flow pipes, inlet pipes, drain and wash out pipes, etc.
- Start of new submersible pump installation.
- Start of installation of step-up and step down transformers, VFD's, MCC, MTS and other electrical instruments and/or equipment.
- Preparation of the required VORs
- Preparation of uncompleted construction submittals

### 5.3. Planned Staff Changes

The CDM Smith teams will actively searching for additional staff to serve in any area required to complete the project with the best quality and safe procedure. Any required position will be filled as needed and as the overall workload increases. Various technical specialists will also work from other CDM Smith offices and/or work TDY in the West Bank as needed.

### 5.4. Planned Meetings and Correspondence with USAID

Next CO meeting is scheduled for January 12, 2016.

### 5.5. Planned Meetings and Correspondence with CMC

Coordination meetings are scheduled for each Task Order every two weeks. Task Order 00006 meetings are expected every two weeks in each reporting period

### 5.6. Planned Meetings and Correspondence with Others

CDM Smith stands ready to meet with other stakeholders as needed.

## 6. ISSUES AND CONSTRAINTS

CDM Smith works to actively communicate potential problems to the CMC and USAID. The following subsections cover current and anticipated issues and constraints.

### 6.1. Administration

No Administrative Constraints were faced during the reporting period. The cooperation and the understanding of the project situation between the Contractor and the CMC allowed resolving all minor problems appeared during the reporting period.

### 6.2. Qabatiya Conveyance System

No issues at this time.

### 6.3 Qabatiya Well Site

**Procurement of major long lead item:**

- Disinfection System including Eyewash/shower- arrived to site on December 24<sup>th</sup>.2015.
- Booster Pumps (Pumping unit), Cans and Motors arrived to the site on 12<sup>th</sup> Nov. 2015 and pumping units arrived the site on 10<sup>th</sup> December 2015.
- VFDs for Booster Pumps Arrived the site on 19 November 2015.
- Submersible Well Pump, Arrived the port on 27<sup>th</sup> Nov.2015, scheduled to be in the site 7<sup>th</sup> December 2015 but the clearance still on hold.
- Hydroponematic - Surge Tank, arrived the site on 22 Dec.2015
- Transformer, Arrived the site on 21 Oct. 2015
- Column Pipes and Access Pipes arrived the site on 24<sup>th</sup> December 2015.
- Switch Gear, Arrived the site on 29<sup>th</sup> November2015
- Motor Control Center, arrived the site on 30<sup>th</sup> December 2015

Below are documented events related to shortage of cement and security situation in West Bank through December 2015.

1-Dec-15	• Due to security situation and closure of Beit Fureek checkpoint, the epoxy painting crew could not arrive to construction site and continue balance tank coating works.
2-Dec-15	• Due to shortage of cement in the local market, casting concrete for booster station and transformer and metering pads was delayed and performed after regular working hours.
3-Dec-15	• CWI could not arrive to construction site due to closure of Jalameh checkpoint. This caused a delay in the activity of installation of yard pipes and booster station pipes.
7-Dec-15	• Due to lack of cement in the local market, casting concrete for booster station walls were cancelled and delayed until sufficient cement quantities become available.
8-Dec-15	• Due to lack of cement in the local market, casting concrete for booster station walls and transformer's pad was performed at near COB time when sufficient cement quantities became available.
12-Dec-15	• Heavy rainfall took place at the COB time which resulted in stopping all works related to site leveling and preparations for rig entrance to site This resulted in delaying all planned works from 4:00 pm to 8:00 pm. (33.3% delay).



14-Dec-15	• Rainfall took place during the first two hours of workday. This resulted in delaying construction activities. 25% delay.
16-Dec-15	• Due to shortage of cement in the local market, casting concrete for part of fence wall's foundation, balance tank metering pad and transformers pads was delayed until sufficient cement quantities become available.
22-Dec-15 to 24-Dec-15	• Due to shortage of cement in the local market, casting concrete was cancelled. This caused a delay in the construction of fence wall (foundation and wall).

## 6.4 Others

No issues

## 7 APPENDIX

- Photos
- Meeting Minutes
- Submittals summary table
- Geo MIS logs
- Inspection Request Log
- Equipment List
- Risks and Mitigation Measures
- Updated CPM Schedule

END OF REPORT

# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix**

### **Task Order 00006 Photos**





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Dismantling of existing yard pipes and fittings after well pump shutdown , 01 December 2015



Plastering works for external surfaces of Electrical Control Building , 01 December 2015



Casting concrete in order to fix booster pumps' cans , 01 December 2015



Block masonry and insulation works inside Electrical Control Building, 02 December 2015



CWI supervising welding works of balance tank fittings, 02 December 2015



Formwork and steel reinforcement for booster pumps cans and walls of booster station, 05 December 2015



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excavation and leveling works of Qabatiya Pump Station's yard , 06 December 2015



Casting concrete for walls of booster station, 08 December 2015



Safety toolbox meeting held at Qabatiya Pump Station , 08 December 2015



HCL technician collecting basecourse sample from reached substrata level at pump station's yard, 09 December 2015



CMC and CDM Smith engineers attended testing of MCC and PLC at EMCO labs , 10 December 2015



Milling works in preparation of asphalt reinstatement at some locations on conveyance system , 12 December 2015





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Installation of electrical conduits at the booster station, 13 December 2015



Formwork and steel reinforcement for foundations of fence wall and transformer's pad, 14 December 2015



Removal of existing well head, 15 December 2015



Removal of existing well column pipes, 16 December 2015



Removal of existing well column pipes, 17 December 2015



in-situ fabrication of fishing tool used for pulling out the fallen pump, 18 December 2015



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Lowering of fishing tool and drilling pipes in order to catch the fallen pump , 19 December 2015



Successfully pulling out the fallen pump, 20 December 2015



Formwork and steel reinforcement for fence wall , 21 December 2015



Installation of chlorination system components (tanks, feed pumps etc.) ,22 December 2015



Installation of cable ladders inside electrical trenches of Electrical Control Building , 23 December 2015



Collecting water samples from Qabatiya Well during well development works , 24 December 2015





# USAID | WEST BANK/GAZA



Welding of balance tank overflow pipes and fittings , 26 December 2015



Installation of electrical panel inside the Living Quarter , 27 December 2015



Casting concrete for the booster station pad , 28 December 2015



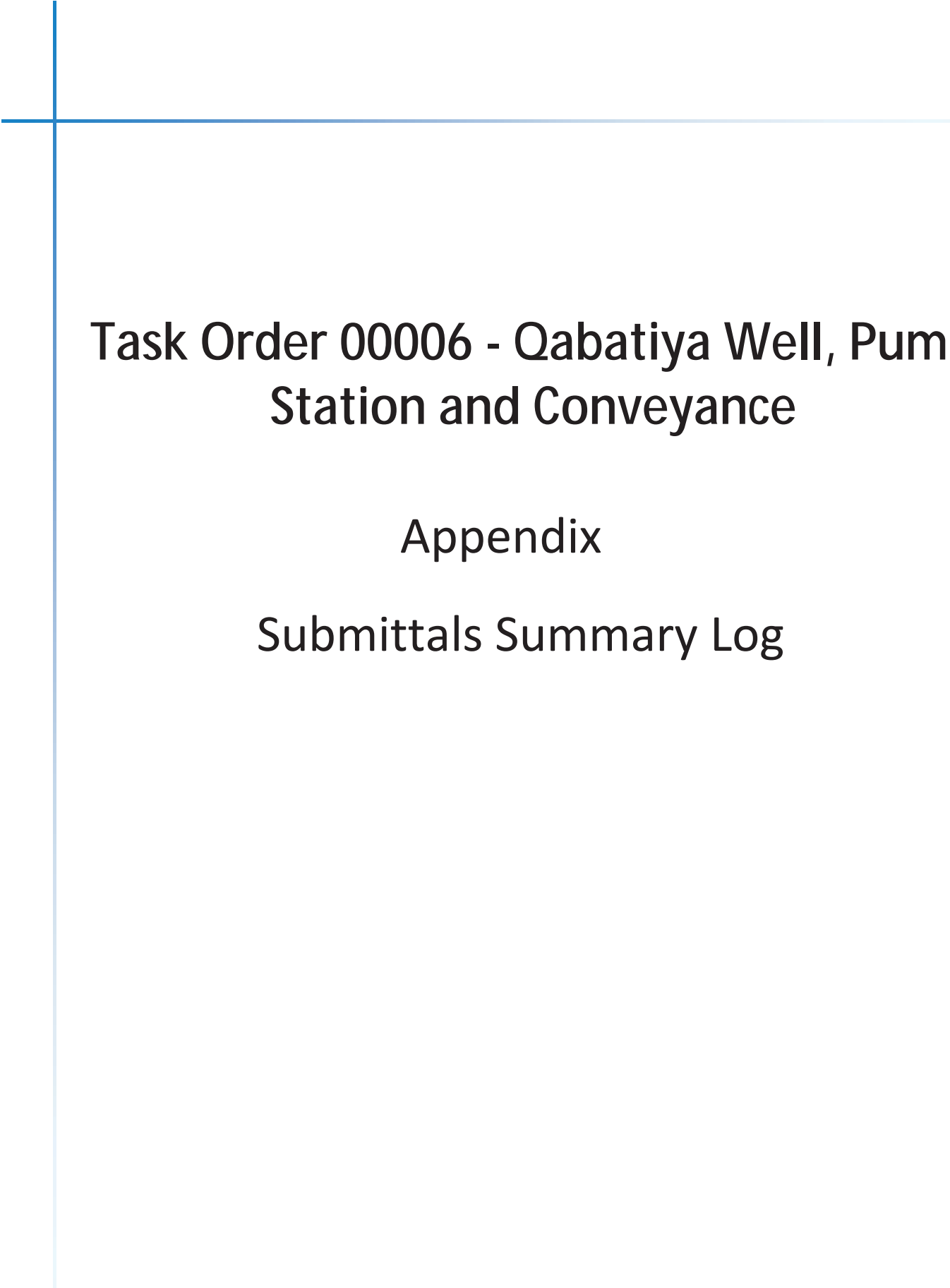
Installation of vertical turbine pumps under supervision of manufacturer's representative, 30 December 2015



Painting works inside the Electrical Metering Building, 31 December 2015



Casting concrete for well head pad after extending column pipe and installation of new sole plate, 31 December 2015



# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

**Appendix**

**Meeting Minutes**

**Meeting Minutes**  
**Qabatiya Well Pump Station TO 13-00006**  
**Bi-Weekly Progress Meeting #44**

**Date:**

Thursday, December 10, 2015

**Timing:**

12:00 PM – 01:00 PM

**Location:**

Primary Field Office  
Al Zababida, Palestine

**Attendees:**

**PWA/WBWD**

--

**USAID**

Mr. Anan Masri

**Black and Veatch**

Mr. Adnan Safi  
Mr. Mukhles Najajreh  
Mr. Khaled Haramy  
Mr. Murad Daoud  
Mr. Husni Sharabati  
Ms. Lubna Haj Hamad  
Mr. Tamer Assaf

**CDM Smith and Subcontractors**

Mr. Ghassan Thaher  
Mr. Talal Mahasin  
Mr. Abed Baker

**Notes Prepared by:**

Mukhles Najajreh, Black & Veatch

**Purpose:**

Bi-weekly Progress Meeting for Qabatiya Well Pump Station and Conveyance System Project– TO 13-00006; aimed to review progress of work, discuss project issues and provide solutions where required.

**Abbreviation List:**

**AAUJ:** Arab American University Jenin, **ASAP:** As Soon As Possible, **BV:** Black and Veatch, **CM:** Coordination Meeting, **CO:** Contracting Officer, **DCL:** District Coordination Liaison, **CDM:** Camp Dresser & McKee, **DJR:** Daily Joint Report, **ECL:** Environmental Check List, **INFO:** Information, **MCC:** Motor Control Center, **MOM:** Minutes of Meeting, **MTS:** Manual Transfer Switch, **NCR:** Non Compliance Report, **OSHA:** Occupational Safety and Health Administration, **PLC:** Programmable Logic Controller, **PM:** Progress Meeting, **PWA:** Palestinian Water Authority, **QBW:** Qabatiya Well, **SG:** Switch Gear, **USAID:** United States Agency for International Development, **VFD:** Variable Frequency Drive; **VOR:** Variation Order Request, **VO:** Variation Order, **WBWD:** West Bank Water Department.

**1. Project Key Data:**

- Notice of Award April 02, 2013
- Contract Signing April 02, 2013
- Notice to Proceed May 14, 2013
- Project Duration 550 Days
- Modified Project Duration 996 Days
- Project Planned Completion Date November 14, 2014
- Modified Completion Date February 03, 2016
- Project Elapsed Time 919 Days
- Project Planned Overall % of Completion 34.99%
- Project Actual Overall % of Completion 25.55%
- Total Float (Variance Duration) -15 Days

**2. Documents distributed at this meeting:**

- Copy of Progress Meeting Agenda #44.
- Copy of Project Key Data.
- Two Weeks Look Ahead by CDM Smith.
- Long Lead Items Procurement Update.

**3. Documents Attached:**

- Progress Meeting Agenda #44.
- Attendees List.
- Long Lead Items Procurement Update.
- Two Weeks Look Ahead by CDM Smith.

**4. Next Meeting is scheduled at 11:00 AM on Thursday, December 24, 2015 at Al Zababida, Palestine.**

No.	Ref.	Description	Action By	Date
1	PM #21	<p><b><u>Safety &amp; Environment.</u></b></p> <p><b>1.1 Confined Space Requirements.</b></p> <p>BV reminded CDM Smith to take into consideration the provisions of the confined space requirements and to provide labor with tools and equipment necessary to assure the safety as per OSHA &amp; the accepted safety plan.</p> <p>CDM Smith stated they will follow up this issue.</p>	<p><b>CDM Smith</b></p> <p><b>Info</b></p>	All Times
	PM #41	<p><b>1.2 Portable W/C Cabinet.</b></p> <p>BV advised that the portable W/C cabinet shall be available and operational on site at all times.</p> <p>CDM Smith advised that portable W/C cabinet will be available on site on Sunday; December, 13, 2015.</p>	<p><b>CDM Smith</b></p>	Dec 13, 2015
	PM #34	<p><b>1.3 Toolbox Meeting.</b></p> <p>BV reminded CDM Smith to perform toolbox meetings for all new activities.</p> <p>CDM Smith advised that a safety tool box meeting regarding shutdown period's activities will be conducted on Saturday; December, 12, 2015.</p>	<p><b>CDM Smith</b></p>	Dec 12, 2015
	PM #15	<p><b>1.4 Housekeeping.</b></p> <p>BV reminded CDM Smith that adequate levels of safety and housekeeping shall be sustained and followed up on a daily basis.</p> <p>CDM Smith stated they will follow up this issue.</p>	<p><b>CDM Smith</b></p>	All Times
2	PM #10	<p><b><u>Quality.</u></b></p> <p><b>2.1 Failed Concrete Compressive Strength Tests.</b></p> <p>BV advised that neither the 7-days nor the 28-days testing of compressive strength for the roof slabs of electrical buildings (Metering &amp; Control) achieved the required strength criteria as per contract specifications. BV further advised that NCR # 03 was issued for CDM Smith on this regard noting that non-complying works may need to be removed at no additional cost to OWNER.</p> <p>CDM Smith advised that their initial investigations show that there has been a change in sand source leading to a decline in compressive strength.</p>	<p><b>Info</b></p> <p><b>Info</b></p>	

		<p>BV emphasized that CQC shall be constantly monitoring the ready mix concrete components at concrete factory.</p> <p>BV stressed that any successor activities for the metering &amp; control buildings prior to closing the related NCR is the contractor's sole responsibility.</p> <p>USAID stated that the project at the current stage is in critical phase, and urged CDM Smith to develop plan.</p> <p>CDM Smith stated that an investigation report is under preparation by a third party (Building Centre Lab-Hebron) to be submitted to CMC to close the issued NCR.</p>	<p><b>CDM Smith</b></p> <p><b>Info</b></p> <p><b>CDM Smith</b></p> <p><b>CDM Smith</b></p>	<p><b>All Times</b></p> <p><b>ASAP</b></p> <p><b>ASAP</b></p>
3.	<p><b>PM #01</b></p> <p><b><u>Progress of Work.</u></b></p> <p><b>3.1 Progress Summary by CDM Smith.</b></p> <p>BV raised their serious concerns regarding the reported delays, and noted the followings:</p> <ul style="list-style-type: none"> <li>• The shutdown plan is 7 days behind the schedule as per the accepted well shutdown plan (SUB-13-00006-QBW-778-A),</li> <li>• The project is 15 days behind the schedule as per CDM's updated CPM schedule (SUB-13-00006-QBW-836-A).</li> </ul> <p>CDM Smith noted that they are working on a revised shutdown plan that will be submitted to CMC by the next week.</p> <p>BV commented on the sent letter to PWA/WBWD by CDM Smith, and mentioned that CDM Smith were provided with all needed information about the existing well pump and accessories by PWA/WBWD's Contractor (Al Wael). In addition, BV stated that the fallen pump has been removed and reinstalled by CDM Smith's Contractor (Site Group); so, they should have all the necessary information about fallen pump.</p> <p>BV reminded CDM Smith that all required permanent equipment and materials shall be on-hand and ready for installation upon completion of fishing and well cleaning prior to well pump installation, and urged CDM Smith to prepare an alternate plan in case of any delays related to equipment delivery to site before installing the permanent pump as per specification.</p> <p>Moreover, BV mentioned that the accepted shutdown duration is 54 days. Accordingly, PWA/WBWD will secure water for the related beneficiaries during the planned duration only. Therefore, it is CDM Smith responsibility to work with PWA/WBWD to secure the required water quantities for the related beneficiaries in case of any delays beyond the</p>	<p><b>Info</b></p> <p><b>CDM Smith</b></p> <p><b>Info</b></p> <p><b>CDM Smith</b></p> <p><b>Info</b></p> <p><b>CDM Smith</b></p>	<p><b>Dec 17, 2015</b></p> <p><b>ASAP</b></p> <p><b>ASAP</b></p>	



		<p>planned duration. BV urged CDM Smith to investigate with PWA/WBWD an alternative plan.</p> <p>CDM Smith advised that they have not prepared an alternative plan yet. However; CDM Smith advised they will check with PWA/WBWD on this regard at the earliest, USAID &amp; CMC will be informed accordingly.</p> <p>BV stated that the alternative plan shall be officially documented.</p>	<p><b>CDM Smith</b></p> <p><b>Info</b></p>	<p><b>ASAP</b></p>
	<b>PM #01</b>	<p><b>3.2 Long Lead Items Procurement Update.</b></p> <p>CDM Smith distributed the long lead item procurement schedule during the meeting (refer to attached copy).</p> <p>BV requested from CDM Smith to assure that all required permanent equipment and materials shall be on-hand and ready for installation prior to permanent well pump installation.</p> <p>CDM Smith advised that one component of the submersible well pump is being held at the Israeli Authorities for security checks.</p> <p>USAID requested from CDM Smith to specify the devise through an email to provide the necessary assistance.</p>	<p><b>Info</b></p> <p><b>CDM Smith</b></p> <p><b>Info</b></p> <p><b>CDM Smith</b></p>	<p><b>All Times</b></p> <p><b>ASAP</b></p>
	<b>PM #01</b>	<p><b>3.3 Two Weeks Look Ahead.</b></p> <p>CDM Smith distributed the Two Weeks Look Ahead schedule during the meeting (refer to attached copy).</p>	<p><b>Info</b></p>	
<b>4</b>	<b>PM #37</b>	<p><u><b>Submittals.</b></u></p> <p><b>4.1 Final O&amp;M &amp; Training Requirements for Conveyance System.</b></p> <p>CDM Smith advised that they are progressing on the O&amp;M and will submit it on Sunday December 13, 2015.</p>	<p><b>CDM Smith</b></p>	<p><b>Dec 13, 2015</b></p>
	<b>PM #41</b>	<p><b>4.2 Startup Plan.</b></p> <p>BV advised that each of the system's components as well as the whole system shall be tested. In addition, BV reminded CDM Smith that as per project specification a comprehensive startup plan shall be submitted not less than 60 days prior to startup.</p> <p>CDM Smith stated that the startup plan was submitted and returned with code D and will be resubmitted soon.</p> <p>CDM Smith further advised that they will submit a comprehensive startup plan by the next week accordingly.</p>	<p><b>Info</b></p> <p><b>Info</b></p> <p><b>CDM Smith</b></p>	<p><b>Dec 17, 2015</b></p>
	<b>PM #34</b>	<p><b>4.3 Training Material &amp; Instructor's Qualification.</b></p> <p>BV repeatedly urged CDM Smith to expedite and complete the submission of all required training material &amp; instructor's qualification as</p>		

		<p>per the contract documents; to avoid any further delays.</p> <p>CDM Smith stated that the training materials will be submitted shortly. However, the training instructor's qualification was submitted except for Bermad and Morex; since CDM Smith has difficulties with Bermad factory to finalize the training issue because of the security conditions in the west bank.</p> <p>BV urged CDM Smith to share this issue with all related parties by sending an email describing the situation and the proposed solutions. Furthermore, BV emphasized that CDM Smith needs to contact PWA/WBWD for the availability of trainees staff for the proposed training dates, durations and topics so that the availability is assured in advance.</p> <p>USAID noted that no activities will be allowed beyond project completion date (February 03, 2016), and this includes post construction activities such as trainings.</p> <p>CDM Smith stated that they will follow up these issues.</p>	<b>CDM Smith</b>  <b>Info</b>  <b>CDM Smith</b>  <b>Info</b>  <b>Info</b>	<b>ASAP</b>  <b>ASAP</b>  <b>Feb 03, 2015</b>
	<b>PM #34</b>	<p><b>4.4 Testing Procedure.</b></p> <p>BV requested from CDM Smith to expedite the submission of testing procedure, and explained that testing procedure to be performed for each of the components separately prior to connecting to the system. In addition, BV stated that all needed support to accelerate this issue will be provided to CDM Smith.</p> <p>CDM Smith advised that it will be submitted by December 21, 2015.</p>	<b>Info</b>  <b>CDM Smith</b>	  <b>Dec 21, 2015</b>
<b>5</b>	<b>PM #26</b>	<p><b><u>Financial.</u></b></p> <p><b>5.1 Required Variation Order Requests.</b></p> <p>BV requested from CDM Smith to accelerate the submission of the VOR requested via SM-13-00006-QBW-E-C-019 for the connection to SCADA system.</p> <p>CDM Smith stated that it will be submitted by next week.</p>	<b>CDM Smith</b>	<b>Dec 17, 2015</b>
<b>6</b>	<b>PM #01</b>	<p><b><u>Reports.</u></b></p> <p><b>6.1 Monthly Report.</b></p> <p>BV reminded CDM Smith to address in monthly report a list of the non-working days other than holidays and weekends along with the percentages of stoppage as recorded in the DJR's.</p>	<b>CDM Smith</b>	<b>All Times</b>
	<b>PM #01</b>	<p><b>6.2 Daily Joint Report.</b></p> <p>BV emphasized on the importance of the DJRs, and requested from CDM Smith to reflect – if applicable - the Security, Landowner Objections, Weather delays and any other affecting construction works fully or partially along with the impact percentage instead of indicating</p>	<b>CDM Smith</b>	<b>All Times</b>

		slow rate of progress.		
7	New	<b>7.1 Fishing Tools.</b>  BV repeatedly reminded CDM Smith that as per the approved contract modification, fishing process shall be completed in five days, and urged CDM Smith to perform fishing using appropriate fishing tool many times. Furthermore, BV noted that using a locally fabricated fishing tool is a risky approach and may lead to unnecessary delays and fishing trials (trial and error approach). Although, the risk of any delay in catching or pulling the pump resulting from the use of locally fabricated fishing tool remains within contractor's responsibility.	<b>CDM Smith</b>  <b>Info</b>	<b>All Times</b>
	New	<b>7.2 Lack of Response to BV Progress Concerns.</b>  BV reminded CDM Smith that progress concerns sent by BV must be taken seriously.	<b>CDM Smith</b>	<b>All Times</b>
	New	<b>7.3 Communication with PWA.</b>  BV stressed that all communication with PWA/WBWD shall be performed through BV only unless advised otherwise.	<b>CDM Smith</b>	<b>All Times</b>

**End of Minutes**



USAID WEST BANK/GAZA  
INFRASTRUCTURE NEEDS PROGRAM INPII  
TO 13-00006, QABATIYA WELL PROJECT (QBW)  
BI-WEEKLY PROGRESS MEETING AGENDA #44

**Date:**

Thursday, December 10, 2015

**Timing:**

11:00 AM –12:00 PM

**Location:**

Primary Field Office  
Al Zababida, Palestine

**Attendees:**

- PWA/WBWD.
- USAID.
- Black & Veatch.
- CDM Smith and Sub-Contractors.

**Agenda:**

**1. Safety & Environment.**

- 1.1 General Safety Issues.

**2. Quality.**

- 2.1 Failed Concrete Compressive Strength Tests.

**3. Progress of Work.**

- 3.1 Progress Summary by CDM Smith.
- 3.2 Long Lead Items Procurement Update.
- 3.3 Two Weeks Look Ahead.
- 3.4 Punch List Items for Conveyance System.
- 3.5 Shutdown Preparation Delays.
- 3.6 Well Pad Construction Delays.
- 3.7 Rig Mobilization Delays.



**4. Submittals.**

- 4.1 Final O&M and Training Requirements for Conveyance System.
- 4.2 Startup Plan.
- 4.3 Training Material & Instructor's Qualification.
- 4.4 Testing Procedure.

**5. Financial.**

- 5.1 Required Variation Order Requests.

**6. Reports.**

- 6.1 Daily Joint Reports.
- 6.2 Monthly Reports.

**7. Others.**

- 7.1 Fishing Tools.
- 7.2 Lack of Response to BV Progress Concerns.
- 7.3 Communication with PWA.

USAID WEST BANK/ GAZA  
INFRASTRUCTURE NEEDS PROGRAM INPII  
Contract No AID-294-I-00-12-00001  
Task Order No AID-294-TO-13-00006  
QABATIYA WELL PUMP STATION TO 13-00006

Project Key Data:

• Notice of Award	April 02, 2013
• Contract Signing	April 02, 2013
• Notice to Proceed	May 14, 2013
• Project Duration	550 Days
• Modified Project Duration	996 Days
• Project Planned Completion Date	November 14, 2014
• Modified Completion Date	February 03, 2016
• Project Elapsed Time	940 days (94.37%)
• Project Planned Overall % of Completion	34.99%
• Project Actual Overall % of Completion	25.55%
• Total Float (Variance Duration)	-15 Days



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West Bank/Gaza INP II

Notes

West Bank/Gaza INP II Program Office  
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Subject: TO13-00006 QBW: Progress Meeting #44

West Bank/Gaza INP II

Venue: B&V Office – Az-Zababdeh

Date: December 10, 2015

Time: From 11:00 AM to 12:00 PM

Attendees List

No.	Name	Title	Organization	Mobile Number	E-mail	Signature
1	Hussni Sherabati	Mech Eng	B.V	0592 997712	Sherabati.h@BV.com	
2	Talal Mahasin	QC/QA Manager	CDM Smith	0592 997702	mahasin.t@cdmsmith.com	
3	Abdel Rahman Bakeer	Safety Eng.	CDM Smith	0592-997700	bakeer.ar@cdmsmith.com	
4	Ghassan Thaher	PM	CDM Smith	0592-997701	thaher.g@cdmsmith.com	
5	ANAN MASRI	Eng.	USAID	0505545385	amassri@usa.gov	
6	Adnan Safi	OCM	BV	0594930960	Safi.A@BV.com	
7	Lubna Haj Mamad	Sr. OE	B&V	0598 934661	Hajmamad.L@BV.com	
8	Mukhlis Najjirch	PM	BV	0598934660	najjirch.m@BV.com	
9	Muhammad Darrad	QA/QC	BV	0598934662	darrad.m@BV.com	
10	Khaled Horamy	Mech Eng	BV	0594 930460	horamy.k@bv.com	
11	Tamer Assaf	OE	BV	0592997707	ASSAF.T@bv.com	
12						
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15						
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17						





Date: 10<sup>th</sup> December, 2015

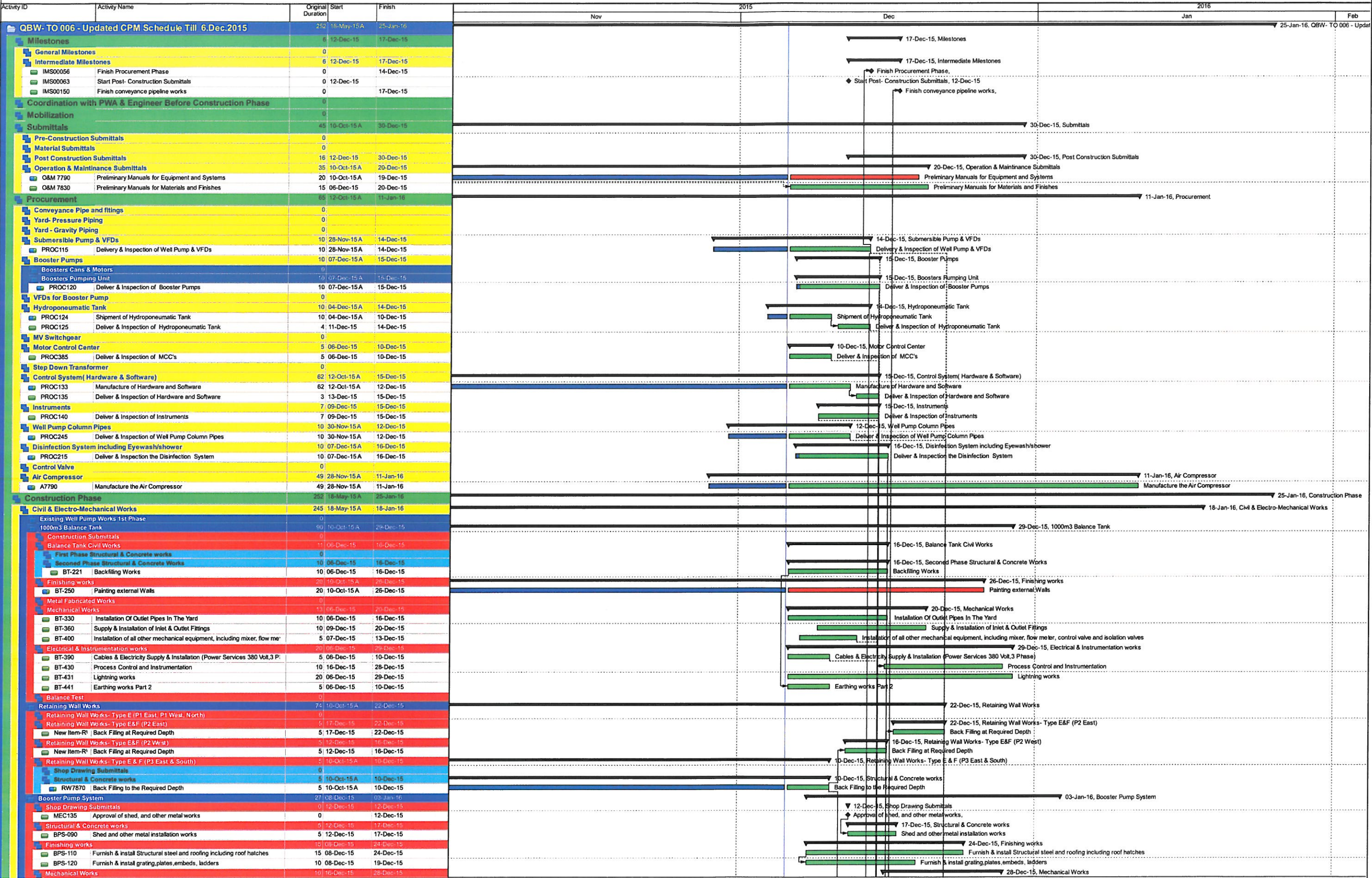
Updated CPM Schedule Till: 6<sup>th</sup> December, 2015

- Qabatiya Well Pump Station and Conveyance System:

- Planned Start Date = 14<sup>th</sup> May 2013
- Planned Finish Date = 3<sup>rd</sup> February 2016
- Planned % complete = 34.99%
- Performance % complete = 25.55%
- Float (days) = - 15

Description	Notes
Disinfection System including Eyewash/shower	Expected Receiving Date In Qabatiya is <b>12 Dec.2015</b>
Submersible Well Pump	Arrived the port on <b>27th Nov.2015</b>
Booster Pumps (Pumping unit)	Cans & Motors arrived the project on <b>12 Nov. 2015</b> and pumping unit arrived the port on <b>6 Dec. 2015</b>
VFDs for Booster Pumps	Arrived the project on <b>19 Nov 2015</b>
Hydropneumatic - Surge Tank	Shipped by Airfreight from USA on <b>4 Dec.2015</b> expected to arrive the project on <b>14 Dec.2015</b>
Transformer	Arrived the project on <b>21 Oct. 2015</b>
Column Pipes + Access Pipes	Arrived the port on <b>29 Nov. 2015</b>
Switch Gear	Arrived the project storage on <b>29 Nov. 2015</b>
Motor Control Center	Expected Receiving Date In Qabatiya is <b>12 Dec.2015</b>
Control System (Hardware & Software)	Expected Receiving Date In Qabatiya is <b>15 Dec.2015</b>

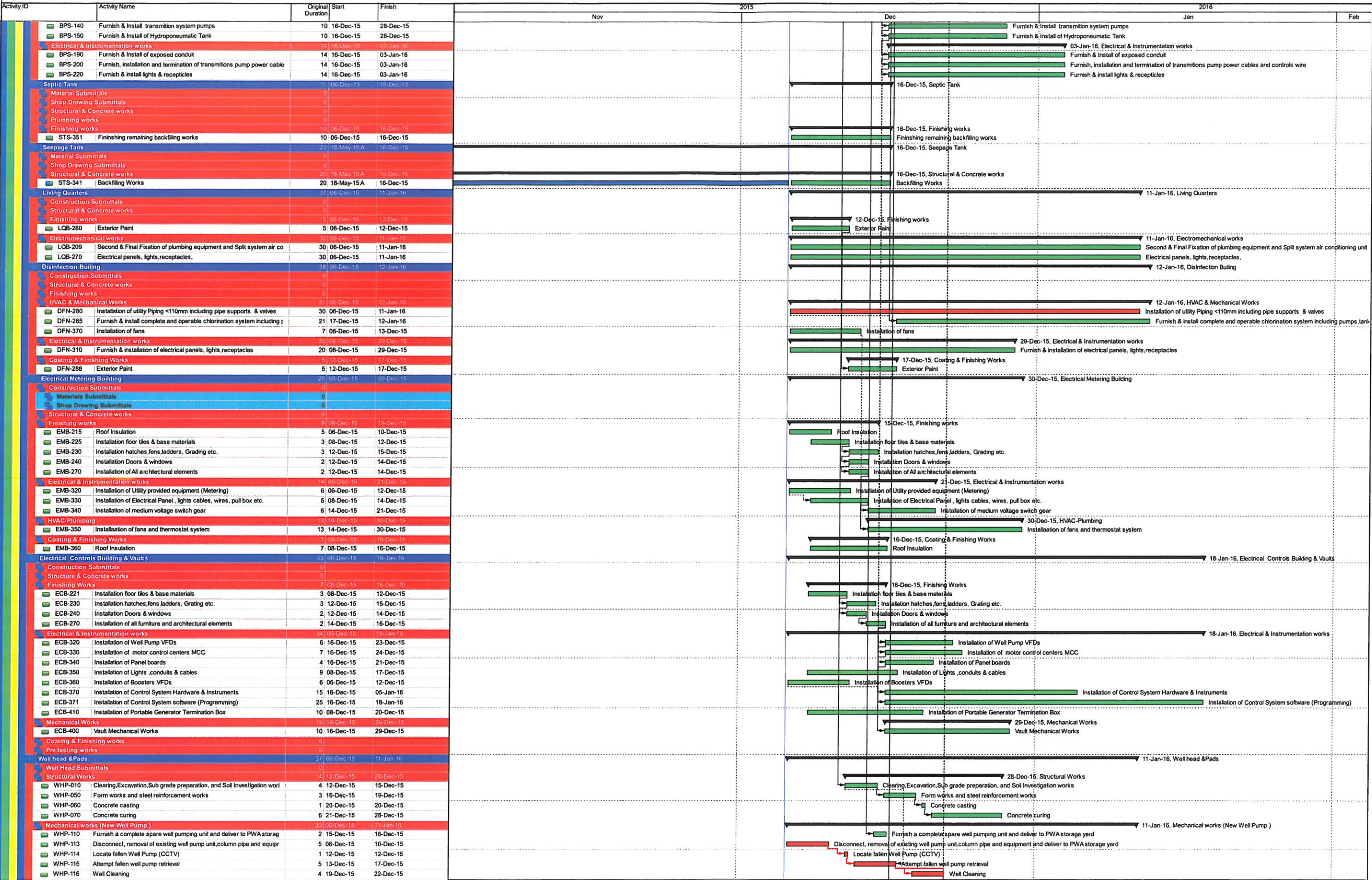




Actual Level of Effort    Remaining Work    Milestone  
Actual Work    Critical Remaining Work    summary

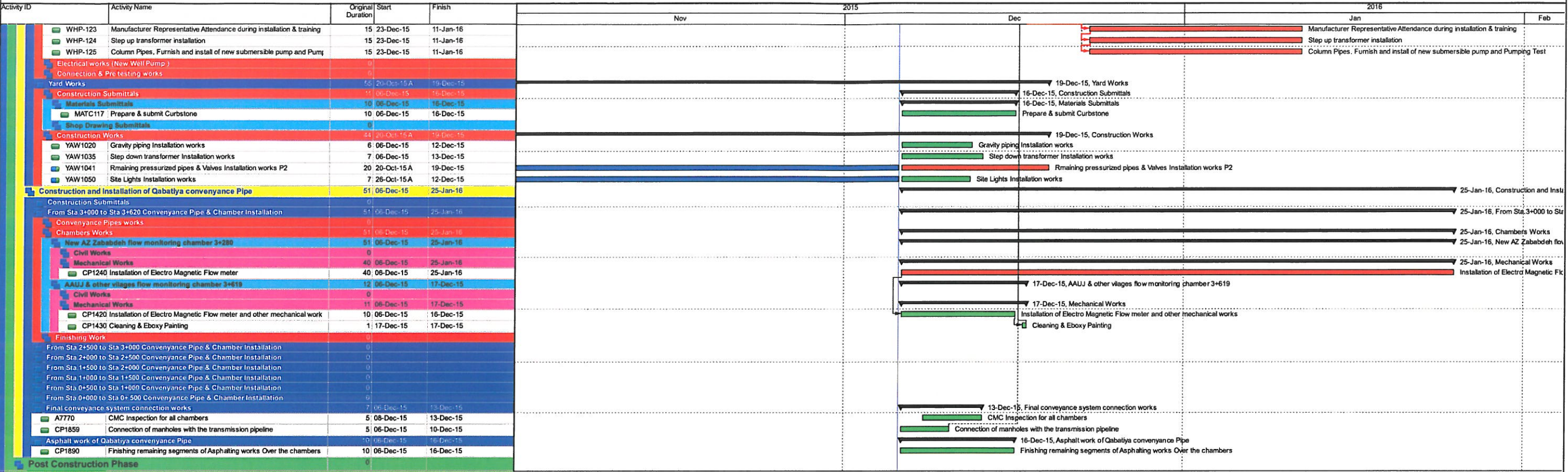


QBW- TO 006 - Updated CPM Schedule Till 6.Dec.2015 - Two Weeks Look Ahead



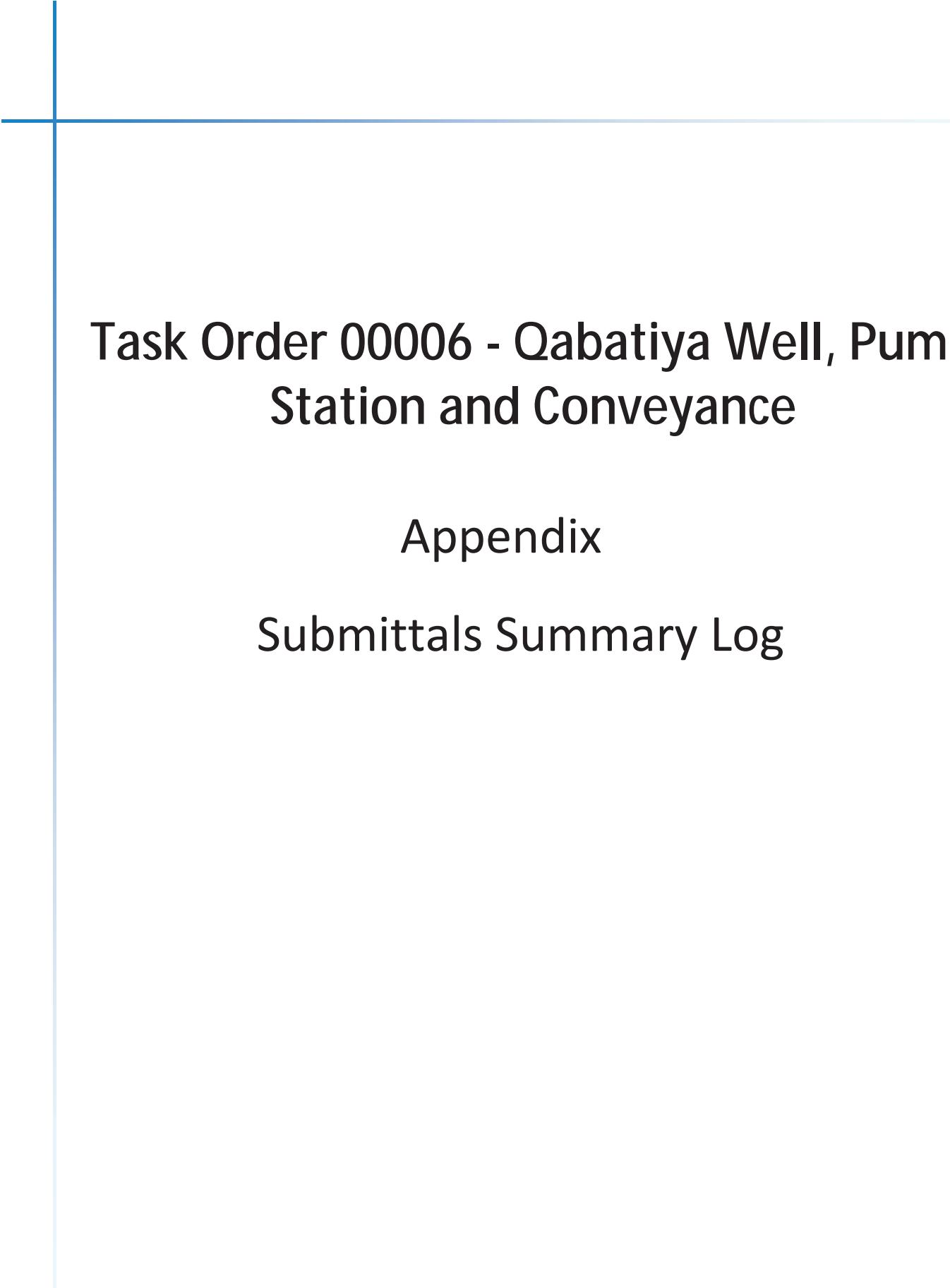
Actual Level of Effort    Remaining Work    Milestone  
Actual Work    Critical Remaining Work    summary





Actual Level of Effort    Remaining Work    Milestone  
Actual Work    Critical Remaining Work    summary



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# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix**

### **Submittals Summary Log**

USAID/West Bank-Gaza-AID-296-TO-13-00006  
Qabatiya Well Pump Station Conveyance Pipeline  
Submittal Log

Submittal #	Submittal Name	Date Submitted To Client	Date Returned From Engineer	Status
SUB-13-00006-QBW-567B	Revised Mechanical shop drawing for the disinfection building	07/12/2015	Retracted 14/12/2015	
SUB-13-00006-QBW-567B	Revised Mechanical shop drawing for the disinfection building	14/12/2015	22/12/2015	B
SUB-13-00006-QBW-708A	Sample of adjustable jack support for steel pipes at Qabatiya pump station	28/12/2015		
SUB-13-00006-QBW-733C	Mores, Ine, Local representative and trainer for Qabatiya project	27/12/2015		
SUB-13-00006-QBW-756B	Gate valve testing reports (PN16,PN40 of DN300,DN250,DN200,DN150,DN100&DN50)and one PN40 DN150 Dismantling joint	02/12/2015	07/12/2015	A
SUB-13-00006-QBW-783B	Structural Analysis and Design of Steel Shed for Booster Pumps Area	01/12/2015	10/12/2015	C
SUB-13-00006-QBW-783C	Structural Analysis and Design of Steel Shed for Booster Pumps Area	15/12/2015	27/12/2015	B
SUB-13-00006-QBW-797B	Shop Drawings for Structural Details of Booster Station Grating	02/12/2015	17/12/2015	B
SUB-13-00006-QBW-800B	shop drawing for external ladder for building	03/12/2015	13/12/2015	B
SUB-13-00006-QBW-824A	Test Report on Concrete Compressive Strength for electrical duct banks (DBS-04.1+DBP-03.7) and electrical Pole -04(07-Day Result )Casted on Nov 22, 2015 Ref:M/1511/373	01/12/2015	01/12/2015	A
SUB-13-00006-QBW-825A	Certificate of conformity for sleeve type coupling with harness(for QBW pumping station)	01/12/2015	08/12/2015	A
SUB-13-00006-QBW-826A	8" X 90" Long Radius Elbow and sole plate for the well discharge head	03/12/2015	Retracted 3/12/2015	
SUB-13-00006-QBW-826A	Long Radius discharge head	03/12/2015	Retracted 13/12/2015	
SUB-13-00006-QBW-827A	Test Certificates for Ball Valves	03/12/2015	08/12/2015	A
SUB-13-00006-QBW-828A	Up date risk management plan for November 2015	03/12/2015	07/12/2015	B
SUB-13-00006-QBW-829A	Monthly Update for Environmental and Mitigation Plan for the Month of November 2015	03/12/2015	10/12/2015	A
SUB-13-00006-QBW-830A	Monthly QA/QC and Safety Plans Updates for November 2015	03/12/2015	15/12/2015	B
SUB-13-00006-QBW-831A	Test Report on Concrete Compressive Strength for electrical duct banks (DBP-01.2&DBP-01.3 &DBS-04) -(28-Day Result )Casted on Nov 1, 2015 Ref:M/1511/71a	03/12/2015	07/12/2015	A
SUB-13-00006-QBW-832A	Control panel for chlorination system	06/12/2015	27/12/2015	B
SUB-13-00006-QBW-833A	Shop drawing for well sole plate	06/12/2015	Retracted 13/12/2015	
SUB-13-00006-QBW-834A	Updated Submittal Registry (up to Nov 30 2015)	06/12/2015	22/12/2015	A
SUB-13-00006-QBW-835A	Certificates of compliance and calibration for( pressure gauge ,pressure snubber, pressure switch and diaphragm seal)	07/12/2015	09/12/2015	A
SUB-13-00006-QBW-836A	Updated CPM Schedule until 6th December 2015	08/12/2015	Retracted 13/12/2015	
SUB-13-00006-QBW-836A	updated schedule submittal until 15 December 2015	16/12/2015		
SUB-13-00006-QBW-837A	Final site layout for qabatiya well pump station	08/12/2015	17/12/2015	C
SUB-13-00006-QBW-838A	CV's of equipment training instructors chlorination system	09/12/2015	22/12/2015	B
SUB-13-00006-QBW-839A	Booster Pump Installation Methodology	09/12/2015	21/12/2015	B
SUB-13-00006-QBW-840A	Shop drawing for protection of old well opening	10/12/2015	22/12/2015	C
SUB-13-00006-QBW-841A	Draft of final Operation & maintenance manual for Qabatiya conveyance system (Volume I &II)	10/12/2015	30/12/2015	C
SUB-13-00006-QBW-842A	Preliminary operation & maintenance manual for submersible well pump	10/12/2015	30/12/2015	B
SUB-13-00006-QBW-843A	Factory test reports for (MCC panel Qabatiya MTS-well common control panel ,Qabatiya PLC &DC UPS system ,MTS Qabatiya and EMCCI )	13/12/2015		
SUB-13-00006-QBW-844A	Test Report on Concrete Compressive Strength for duct bank (2,3 &2,2) blinding for booster station area and blinding for transformer part 2- -(28-Day Result ) Ref:M/1511/277a	13/12/2015	15/12/2015	A
SUB-13-00006-QBW-845A	Test Report on Concrete Compressive Strength for block Masonry Mortar of electrical building -(07-Day Result ) Ref:M/1512/33	13/12/2015	15/12/2015	A
SUB-13-00006-QBW-846A	Test Report on Concrete Compressive Strength for plastering Mortar of electrical building -(07-Day Result ) Ref:M/1512/32	13/12/2015	15/12/2015	A
SUB-13-00006-QBW-847A	well discharge elbow and sole plate -Qabatiya well	15/12/2015	21/12/2015	A
SUB-13-00006-QBW-848A	Mill test certificates for the well column pipes	15/12/2015	Retracted 20/12/2015	
SUB-13-00006-QBW-848A	Mill test certificates for the well column pipes	20/12/2015	27/12/2015	A
SUB-13-00006-QBW-849A	Protective coating for steel pipes and flanges	16/12/2015	21/12/2015	A
SUB-13-00006-QBW-850A	Test report of field compaction test (field dendency) for the substrata level beneath Rig Pad-M/1512/192	16/12/2015	21/12/2015	C
SUB-13-00006-QBW-850B	Test report of field compaction test (field dendency) for the substrata level beneath Rig Pad-M/1512/193	21/12/2015	22/12/2015	A
SUB-13-00006-QBW-851A	Alternative plumping fixture	16/12/2015	21/12/2015	A
SUB-13-00006-QBW-852A	Preliminary operation & maintenance manual for Step-up Transformer	17/12/2015		
SUB-13-00006-QBW-853A	curb stone-Al Fares company-for source approval	17/12/2015	27/12/2015	B
SUB-13-00006-QBW-854A	Test reports on concrete block for walls of electrical buildings -report Ref.No.M/1512/63 for 40X20X10cm blek	21/12/2015	22/12/2015	A
SUB-13-00006-QBW-855A	Test Report on Concrete Compressive Strength for electrical duct banks(DBS-04.1+DBP-03.7 and electrical Pole-04 (28-Day Result ) casted on Nov.22,2015- Ref:M/1511/373a	22/12/2015	27/12/2015	A
SUB-13-00006-QBW-856A	Galvanized metal angle (Sample)and method of installation	23/12/2015	29/12/2015	C
SUB-13-00006-QBW-857A	Testing Procedures for QBW system	23/12/2015		
SUB-13-00006-QBW-858A	Training plan for the ESP and VSD	23/12/2015		
SUB-13-00006-QBW-859A	Eye wash Test & Conformity Certificate	24/12/2015	27/12/2015	C
SUB-13-00006-QBW-859B	Eye wash Test & Conformity Certificate	28/12/2015	29/12/2015	A
SUB-13-00006-QBW-860A	Test Report of Field Compaction Test (field Density) for the Booster Station and Surge Tank Pads – M/1512/459	24/12/2015	27/12/2015	C
SUB-13-00006-QBW-861A	Chlorine system training plan	24/12/2015		
SUB-13-00006-QBW-862A	Startup plan	24/12/2015		
SUB-13-00006-QBW-863A	Training plan for the booster pump	24/12/2015		

USAID/West Bank-Gaza-AID-296-TO-13-00006  
Qabatiya Well Pump Station Conveyance Pipeline  
Submittal Log

Submittal #	Submittal Name	Date Submitted To Client	Date Returned From Engineer	Status
SUB-13-00006-QBW-864A	Training plan for the surge tank	24/12/2015		
SUB-13-00006-QBW-865A	Seismic analysis of MCC supports	27/12/2015		
SUB-13-00006-QBW-866A	Seismic analysis of MV switchgear supports	27/12/2015		
SUB-13-00006-QBW-867A	Seismic analysis of booster pump VFD's supports	27/12/2015		
SUB-13-00006-QBW-868A	Seismic analysis of well pump VFD supports	27/12/2015		
SUB-13-00006-QBW-869A	Pre-commissioning test forms for electrical & mechanical equipment of Qabatiya pump station	27/12/2015		
SUB-13-00006-QBW-870A	Mill certificates for galvanized steel sections of boosters pumps shed	28/12/2015		
SUB-13-00006-QBW-871A	Site landscape	28/12/2015		
SUB-13-00006-QBW-872A	SS sample support for PVC pipes inside chlorination building	28/12/2015		
SUB-13-00006-QBW-873A	Training Materials(PLC,HMI and Operators field training)	30/12/2015		
SUB-13-00006-QBW-874A	Control Cable - Alternative	30/12/2015		

# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

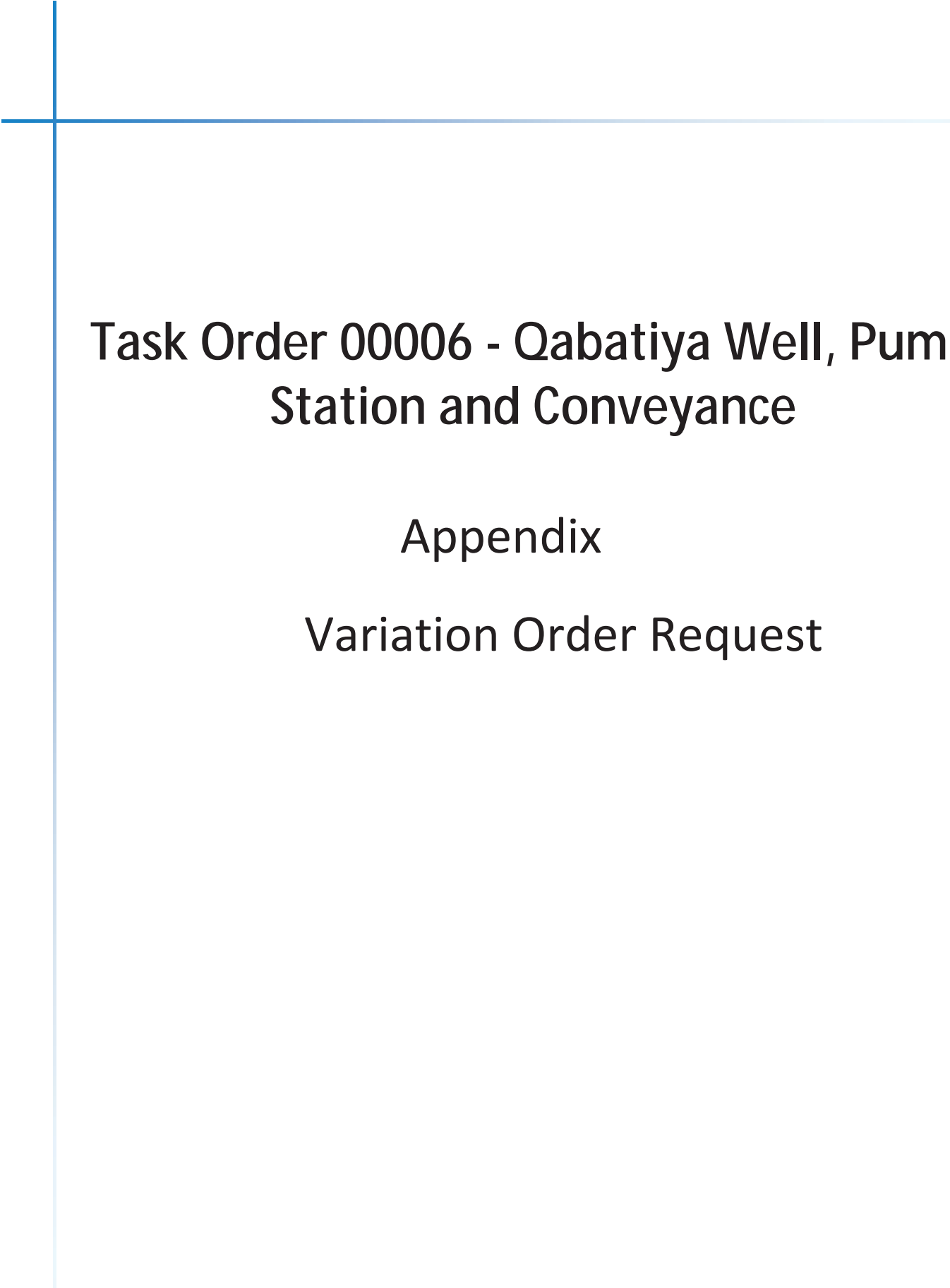
Appendix

Invoices Log

**USAID WESR BANK/GAZA**  
**INFRASTRUCTURE NEEDS Program**  
**INVOICES LOG SHEET**  
**TASK ORDER NO. : AID-294-TO-13-00006**  
**Qabatiya Well Pump Station and Conveyance System**

Invoice #	Invoiced amount	Cumulative amount	BOQ amount	New BOQ (BOQ & VO's)	Remaining Amount	Date Received by B&V	Invoice Status	COR
1	\$ 261,286.00	\$ 261,286.00	\$ 6,858,760.00	\$ -	\$ 6,597,474.00	7/18/2013	Paid	Anan Masri
2	\$ 64,720.88	\$ 326,006.88	\$ 6,858,760.00	\$ 6,932,686.51	\$ 6,606,679.63	12/1/2013	Paid	Anan Masri
3	\$ 514,208.49	\$ 840,215.37	\$ 6,858,760.00	\$ 7,167,166.03	\$ 6,326,950.66	1/19/2014	Paid	Anan Masri
4	\$ 248,893.01	\$ 1,089,108.38	\$ 6,858,760.00	\$ 7,167,166.03	\$ 6,078,057.65	3/6/2014	Paid	Anan Masri
5	\$ 139,266.38	\$ 1,228,374.76	\$ 6,858,760.00	\$ 7,167,166.03	\$ 5,938,791.27	6/1/2014	Paid	Anan Masri
6	\$ 121,525.77	\$ 1,349,900.53	\$ 6,858,760.00	\$ 7,167,166.03	\$ 5,817,265.50	8/20/2014	Paid	Anan Masri
7	\$ 118,835.85	\$ 1,468,736.38	\$ 6,858,760.00	\$ 7,045,989.41	\$ 5,577,253.03	10/29/2014	Paid	Anan Masri
8	\$ 246,975.61	\$ 1,715,711.99	\$10,709,995.00	\$ 10,709,995.00	\$ 8,994,283.01	3/29/2015	Paid	Anan Masri
9	\$ 136,404.36	\$ 1,852,116.35	\$10,659,519.27	\$ 10,709,995.00	\$ 8,807,402.92	10/21/2015	Paid	Anan Masri
10	\$ 93,059.97		\$10,659,519.27	\$ 10,709,995.00			Submitted & Approved	



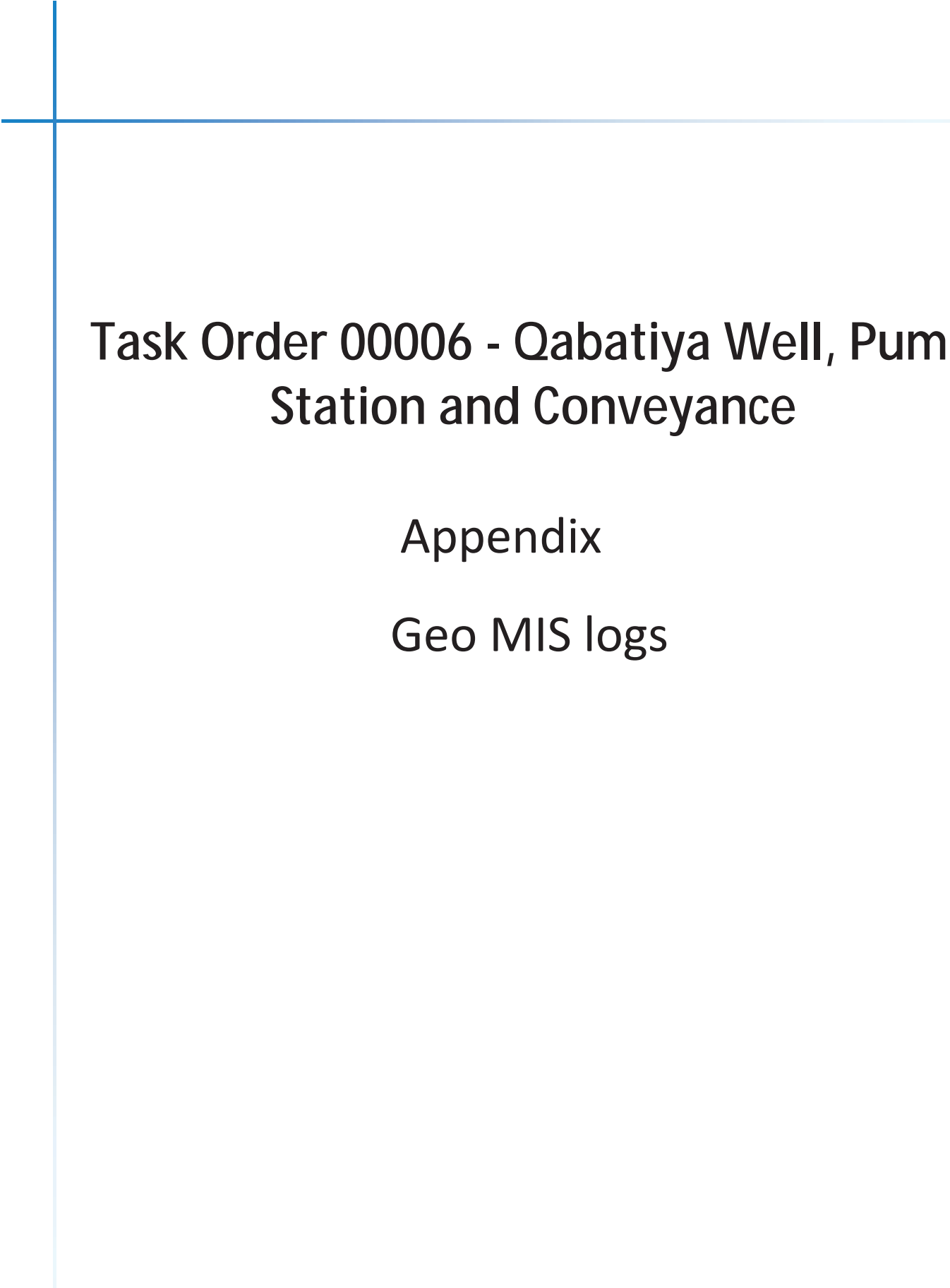
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# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

**Appendix**

**Variation Order Request**

USAID Contract No.: AID-294-I-00-12-00001			
TASK ORDER NO. : AID-294-TO-13-00006			
Qabatiya Well, Pump Station and Conveyance System			
Variation Order Request Log			
VOR NO.	Description	submitted Date to CMC	Date Returned from CMC
VOR-00006-QBW-021A	Transmission of seven signals from Qabatiya well site to the SCADA room at WBWD through a microwave link based on the approved radio path study recommendations	14/12/2015	

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# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

**Appendix**

**Geo MIS logs**

USAID WEST BANK/ GAZA INFRASTRUCTURE NEEDS PROGRAM INPII CONTRACT NO. :AID-294-I-00-12-00001									
TASK ORDER NO. : AID-294-TO-13-00006									
Qabatiya Well Pump Station and Conveyance System									
Temporaray Job Days Summary Report									
Task Order Name: To-13-00006							PERIOD FROM: 5/14/2013		
Sub-project or Activity Name: Qabatiya Well Pump Station and Conveyance System							PERIOD TO: 12/31/2015		
CONTRACTOR: CDM Smith									
Date		Site Staff Job Days**					Total Job Days	No of Full Time Equivalent (FTE) Jobs in the Month*	Notes of Comments
Month	Year	Management	Engineers	Skilled Labor	Unskilled Labor	Other			
May	2013	86.88	44.13	0.00	0.00	2.50	133.50	6	
June	2013	125.25	50.88	3.63	0.00	0.00	179.75	8	
July	2013	114.75	44.00	79.25	46.00	16.63	300.63	13	
August	2013	93.38	72.63	0.00	22.00	0.00	188.00	8	
September	2013	127.13	179.00	72.38	32.13	3.75	414.38	17	
Total of FY 2013							1216.25	51	
October	2013	124.63	179.13	88.63	39.13	8.13	439.63	18	
November	2013	101.25	172.63	49.13	36.50	0.00	359.50	15	
December	2013	109.00	164.38	139.25	67.13	0.00	479.75	20	
January	2014	105.13	174.25	205.00	166.88	7.88	659.13	28	
February	2014	102.63	190.00	193.00	211.63	42.13	739.38	31	
March	2014	114.00	207.25	129.50	122.38	21.13	594.25	25	
April	2014	115.50	233.13	78.38	79.13	0.00	506.13	21	
May	2014	105.63	173.38	213.88	112.88	0.00	605.75	25	
June	2014	107.00	150.38	151.13	117.50	6.00	532.00	22	
July	2014	81.50	65.00	16.75	114.88	0.50	278.63	12	
August	2014	112.25	101.50	131.25	216.63	4.13	565.75	24	
September	2014	107.13	78.63	207.88	93.75	4.13	491.50	21	
Total of FY 2014							6251.38	263	
October	2014	84.38	60.50	186.13	185.13	0.00	516.13	21.69	
November	2014	109.63	59.25	195.13	183.50	9.38	556.88	23.40	
December	2014	127.63	52.88	195.38	122.50	3.38	501.75	21.08	
January	2015	94.88	95.13	145.50	67.25	4.13	406.88	17.10	
February	2015	88.38	117.25	40.75	43.50	0.00	289.88	12.18	
March	2015	89.50	159.50	31.38	87.63	9.50	377.50	15.86	
April	2015	92.50	152.00	36.13	70.63	13.75	365.00	15.34	
May	2015	95.50	146.63	62.88	76.25	11.00	392.25	16.48	
June	2015	93.13	146.75	79.00	61.63	21.88	402.38	16.91	
July	2015	81.13	95.88	120.50	79.88	20.38	397.75	16.71	
August	2015	101.88	161.75	136.88	116.75	28.75	546.00	22.94	
September	2015	86.88	135.63	141.88	98.88	22.00	485.25	20.39	
Total of FY 2015							5237.63	220.07	
October	2015	99.50	154.63	181.50	168.75	28.00	632.38	26.57	
November	2015	99.38	155.75	200.38	172.00	23.25	650.75	27.34	
December	2015	126.63	166.13	411.88	261.25	41.88	1007.75	42.34	
Total of FY 2016							2290.88	96.26	
Note :									
* No of Full Time Equivalent (FTE) Jobs in the Month = Total Job Days / Avg. Days in the Month(23.8)									
** This data collection sheet is for Palestinian staff only , experts and foreign employee shall not be included.									

**TASK ORDER NO. : AID-294-TO-13-00006**  
**Qabatiya Well Pump Station and Conveyance System**  
**Temporay Job Days Report**

Site Group CO. LTD

[illegible]



DATE	Name of Contractor /Subcontractor	Site Staff Job Days **																				Man-days*				
		Worker/Classification (Hours)																								
		Management				Engineers							Skilled labor			Unskilled labor			Other		Total Management	Total Engineers	Total Skilled	Total Unskilled	Total Other	
		Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Project Manager #1, #2, etc ..	Electrical Engineer	Project Engineer	Office Engineer	Quality Control Engineer	Contract Specialist	Civil Engineer	Site Engineer	Survey Engineer	Mechanical Engineer	Foreman	Skilled Labor*	Equipment Operator	Flagman	Office Boy	Unskilled Labor						Driver
December 9, 2015	CDM Smith	8	8	8			9								2			8								4
	Arab Brothers				8	9		8				8	9	8		83	21			48	8					
	Site Group																									
December 10, 2015	CDM Smith	9	9	8		8	9											8			4.125	7	11	5	0.875	
	Arab Brothers				7	7		8				9	7	8		74	14			32						7
	Site Group																									
December 11, 2015	CDM Smith																				0	0	0	0	0	
	Arab Brothers																									
	Site Group																									
December 12, 2015	CDM Smith		8	8			8											8			2.875	6	11.5	7	0.75	
	Arab Brothers				7	7		8				8	7	8		80	12			48						6
	Site Group																									
December 13, 2015	CDM Smith		9	8			8											8			3.125	6	9	6	1	
	Arab Brothers				8	8		8				8	8	8		64	8			40						8
	Site Group																									
December 14, 2015	CDM Smith	10	8	10			9											8			4.5	6	13.375	8	1	
	Arab Brothers				8	8		8				8	8	8		86	21			56						8
	Site Group																									
December 15, 2015	CDM Smith	11	8	10			8								6			8			4.625	6	17.25	8	1	
	Arab Brothers				8	8		8				8	8	8		114	18			56						8
	Site Group																									
December 16, 2015	CDM Smith	8	11	8			9								6			8			4.375	6	25.5	8	1	
	Arab Brothers				8	8		8				8	8	8		174	24			56						8
	Site Group																									
December 17, 2015	CDM Smith	9	9	13			8								6			8			5.875	6	17	13.5	2.5	
	Arab Brothers				8	8		8				8	8	8		70	24			40						8
	Site Group				8											36				60						12
December 18, 2015	CDM Smith	8					8														2	1	4.5	6	1.5	
	Arab Brothers																									
	Site Group				8											36				48						12
December 19, 2015	CDM Smith	8	10	8											6			8			5.25	5	15.5	12.25	2.25	
	Arab Brothers				8	8		8				8	8	8		72	16			40						8
	Site Group				8											30				50						10
December 20, 2015	CDM Smith	11	10	10		8	8											8			5.875	7	14.75	12.25	1	
	Arab Brothers				8	8		8				8	8	8		80	8			40						8
	Site Group				8											30				50						
December 21, 2015	CDM Smith	9	9	9			9											8			5.375	6	15	11	2	
	Arab Brothers				8	8		8				8	8	8		80	16			40						8
	Site Group				8											24				40						8
December 22, 2015	CDM Smith	10	12	8			10											8			6.25	6	15	13.5	2.5	
	Arab Brothers				8	8		8				8	8	8		80	4			40						8
	Site Group				12											36				60						12

DATE	Name of Contractor /Subcontractor	Site Staff Job Days **																				Man-days*						
		Worker/Classification (Hours)																										
		Management				Engineers							Skilled labor			Unskilled labor			Other									
		Task Order Manager	Quality Control Manager	Safety & Envi. Manager	Project Manager #1, #2, etc ..	Electrical Engineer	Project Engineer	Office Engineer	Quality Control Engineer	Contract Specialist	Civil Engineer	Site Engineer	Survay Engineer	Mechanical Engineer	Foreman	Skilled Labor*	Equipment Operator	Flagman	Office Boy	Unskilled Labor	Driver							
December 23, 2015	CDM Smith	10	12				9					8	8	8		80			8				5.25	6	14.5	13.5	2.5	
	Arab Brothers				8		8					8	8	8		80				40	8							
	Site Group				12											36				60	12							
December 24, 2015	CDM Smith	10	12										8	8	8		80	4		8		8		5.25	5	15	13.5	2.5
	Arab Brothers				8		8					8	8	8		80				40	8							
	Site Group				12											36				60	12							
December 25, 2015	CDM Smith	12																					2.75	0	3.75	6.25	1.25	
	Arab Brothers																											
	Site Group				10											30				50	10							
December 26, 2015	CDM Smith	8	8				12									8							4	7	15.5	12.5	2.5	
	Arab Brothers				8	8		8				8	8	8		72	8			40	8							
	Site Group				8											36				60	12							
December 27, 2015	CDM Smith	9	8	8			8												8				5.125	6	14.5	13.5	2.5	
	Arab Brothers				8	8		8				8	8	8		72	8			40	8							
	Site Group				8											36				60	12							
December 28, 2015	CDM Smith	10	8	8			8												8				5.25	6	14.75	12.25	2.25	
	Arab Brothers				8	8		8				8	8	8		88				40	8							
	Site Group				8											30				50	10							
December 29, 2015	CDM Smith	9	8	8			8												8				4.125	6	10	6	1	
	Arab Brothers				8	8		8				8	8	8		72	8			40	8							
	Site Group																											
December 30, 2015	CDM Smith	10	9	8		8	9												8				4.375	7	16	8	1	
	Arab Brothers				8	8		8				8	8	8		112	16			56	8							
	Site Group																											
December 31, 2015	CDM Smith	9	9	8		8	8												8				4	6	12.5	7	1	
	Arab Brothers				6	6		8				8	6	2		88	12			48	8							
	Site Group																											
Total of Month		248.00	237.00	205.00	323.00	254.00	215.00	216.00	0.00	0.00	0.00	219.00	214.00	211.00	0.00	2989.00	306.00	0.00	200.00	1890.00	335.00	0.00	126.63	166.13	411.88	261.25	41.88	

\* Total Man-days = Total Hours / 8

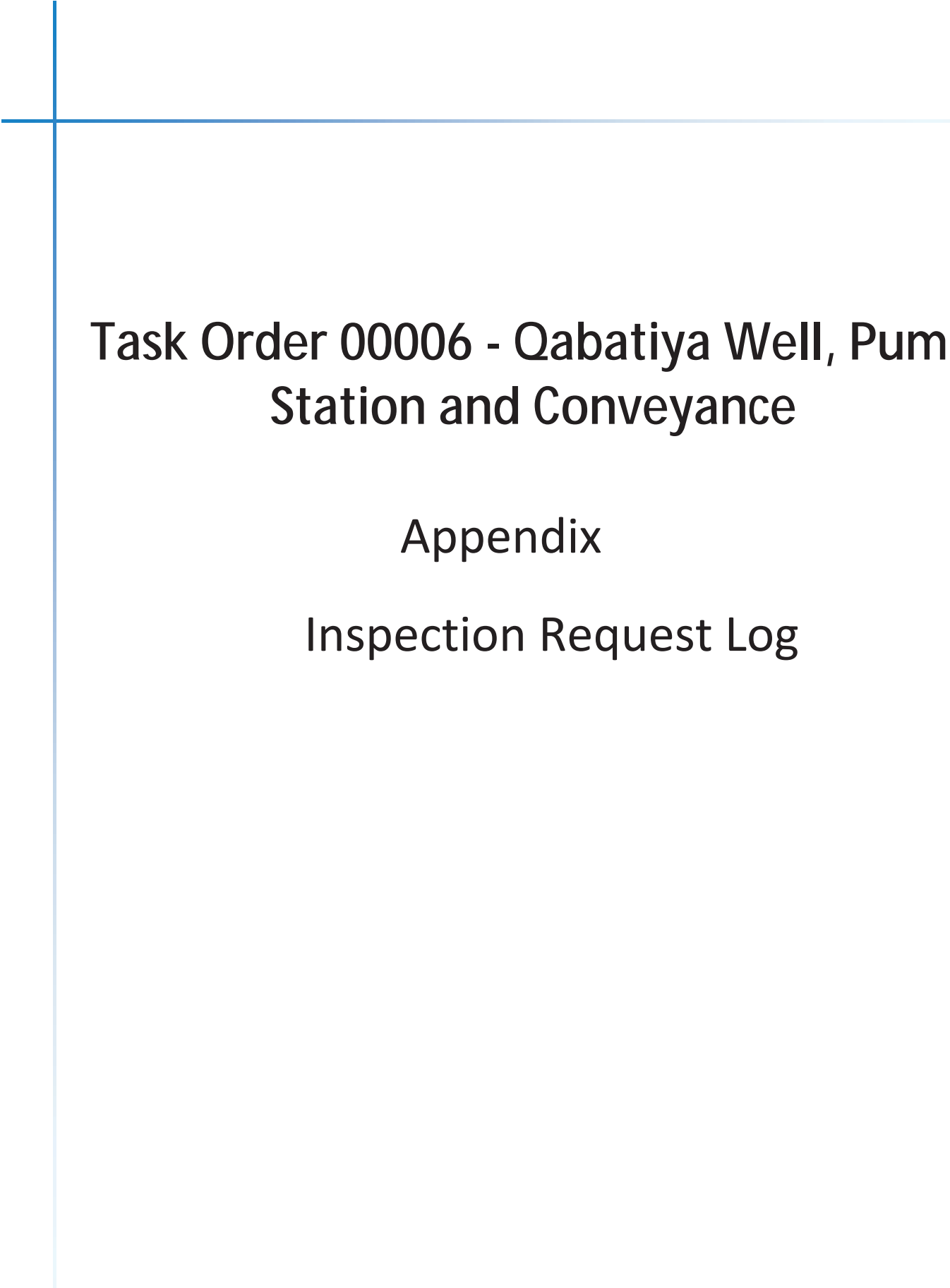
\*\* This data collection sheet is for Palestinian staff only , experts and foreign employee shall not be included.

**Electrical Engineer:**(Telecomm Department Director,TS&CC Director, Solution Engineer, Senior Software Engineer)

**Skilled Labor:** Senior Project Technician

**Skilled Labor :** Certified welding Inspector, Welder's assistant.

**Skilled Labor :**Tool pusher,Driller,Dereck man



# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix**

### **Inspection Request Log**

USAID Contract No.: AID-294-I-00-12-00001				
TASK ORDER NO. : AID-294-TO-13-00006				
Qabatiya Well Pump Station And Conveyance System				
Inspection Request				
IR No.	Description	submitted Date to CMC	Inspection Date	Degree
IR-1300006-QBW-410B	Inspection of concrete surface preparation and cleaning inside the western compartment of balance tank prior to starting painting works.	21/12/2015	22/12/2015	A
IR-1300006-QBW-467C	Inspection of marking the stations for asphalt that needs reinstatement prior to starting milling works	09/12/2015	10/12/2015	C
IR-1300006-QBW-467D	Inspection of marking the stations for asphalt that needs reinstatement prior to starting milling works	22/12/2015	22/12/2015	A
IR-1300006-QBW-470B	Inspection of formwork and steel reinforcement for Transformer's pad (TR-2) prior to casting concrete.	01/12/2015	02/12/2015	A
IR-1300006-QBW-475A	Inspection of concrete preparations for the interior walls of Electrical & control Building and the first block course prior to starting block construction works	01/12/2015	02/12/2015	A
IR-1300006-QBW-476A	Inspection for scratch coat and guide level for the external surfaces (eastern & northern ) of electrical metering building prior to applying brown coat.	02/12/2015	03/12/2015	A
IR-1300006-QBW-477A	Inspection for the delivered variable frequency drive for booster pump and their related spare parts as shown in the attached MRR-045	02/12/2015	03/12/2015	A
IR-1300006-QBW-478A	Inspection for the installation of electromagnetic flow meters and related equipment (transmitters & batteries) inside AAUJ , Al Zababdeh and Aqqaba chamber	02/12/2015	Retracted 3/12/ 2015	
IR-1300006-QBW-478A	Inspection for the installation of electromagnetic flow meters and related equipment (transmitters & batteries) inside AAUJ , Al Zababdeh and Aqqaba chamber	08/12/2015	09/12/2015	C
IR-1300006-QBW-479A	Inspection of formwork and steel reinforcement for the foundation of booster station prior to concrete casting (as shown in the attached drawing)	02/12/2015	03/12/2015	A
IR-1300006-QBW-480A	Inspection of the plastering brown coat for the external wall surfaces (eastern & northern) of Electrical Metering Building prior to applying the finish coat.	03/12/2015	06/12/2015	A
IR-1300006-QBW-481A	Inspection for the installation of interior concrete masonry units for the Electrical and Control Building prior to starting plastering works	03/12/2015	06/12/2015	C
IR-1300006-QBW-481B	Inspection for the installation of interior concrete masonry units for the Electrical and Control Building prior to starting plastering works	06/12/2015	07/12/2015	A
IR-1300006-QBW-482A	Inspection for the installation of interior concrete masonry units for the Electrical Metering Building prior to starting plastering works	03/12/2015	06/12/2015	C
IR-1300006-QBW-482B	Inspection for the installation of interior concrete masonry units for the Electrical Metering Building prior to starting plastering works	06/12/2015	07/12/2015	A
IR-1300006-QBW-483A	Inspection for applying the first epoxy coat for the internal surfaces of eastern compartment of the Balance tank, prior to proceeding with second coat	03/12/2015	06/12/2015	C
IR-1300006-QBW-483B	Inspection for applying the first epoxy coat for the internal surfaces of eastern compartment of the Balance tank, prior to proceeding with second coat	07/12/2015	Retracted 7/12/ 2015	
IR-1300006-QBW-483B	Inspection for applying the first epoxy coat for the internal surfaces of eastern compartment of the Balance tank, prior to proceeding with second coat	09/12/2015	09/12/2015	C
IR-1300006-QBW-483C	Inspection for applying the first epoxy coat for the internal surfaces of eastern compartment of the Balance tank, prior to proceeding with second coat	13/12/2015	13/12/2015	A
IR-1300006-QBW-484A	Inspection for marking of finish levels around the balance tank prior to applying basecourse	03/12/2015	06/12/2015	C
IR-1300006-QBW-484B	Inspection for marking of finish levels around the balance tank prior to applying basecourse	13/12/2015	14/12/2015	A
IR-1300006-QBW-485A	Inspection for form work and steel reinforcement for booster station walls prior to close shuttering	03/12/2015	06/12/2015	C
IR-1300006-QBW-485B	Inspection for form work and steel reinforcement for booster station walls prior to close shuttering	06/12/2015	07/12/2015	A
IR-1300006-QBW-486A	Inspection of formwork and steel reinforcement for the wall of booster station prior to casting concrete	07/12/2015	08/12/2015	A
IR-1300006-QBW-487A	Inspection for plastering guide level and scratch coat for internal wall surfaces of electrical control building prior to applying brown coat	08/12/2015	09/12/2015	A
IR-1300006-QBW-488A	Inspection for formwork and steel reinforcement for Transformer's pad (TR-01) prior to concrete casting (as shown in the attached three-phase inspection-033).	08/12/2015	09/12/2015	A
IR-1300006-QBW-489A	Inspection of concrete surface preparation for roof slab of electrical & control building prior to applying screed concrete works	09/12/2015	09/12/2015	D
IR-1300006-QBW-489B	Inspection of concrete surface preparation for roof slab of electrical & control building prior to applying screed concrete works	28/12/2015	Cancelled	
IR-1300006-QBW-490A	Inspection for the installation of galvanized steel door frames for the Electrical Metering Building	09/12/2015	09/12/2015	C
IR-1300006-QBW-490B	Inspection for the installation of galvanized steel door frames for the Electrical Metering Building	30/12/2015	30/12/2015	A
IR-1300006-QBW-491A	Inspection for the installation of pipes and elbows for the electrical duct bank DBP-09 prior to casting concrete	09/12/2015	10/12/2015	C
IR-1300006-QBW-491B	Inspection for the installation of pipes and elbows for the electrical duct bank DBP-09 prior to casting concrete	17/12/2015	20/12/2015	A
IR-1300006-QBW-492A	Inspection for reached substrata level (298.70) beneath the rig pad	09/12/2015	10/12/2015	A
IR-1300006-QBW-493A	Inspection for the delivered two vertical turbine pumps and two packages of spare parts as shown in the attached MRR-046.	10/12/2015	10/12/2015	A
IR-1300006-QBW-494A	Inspection for the delivered components for the solar collection system (solar collector and tank-LQ-ME-610) as shown in the attached MRR-047	10/12/2015	10/12/2015	A
IR-1300006-QBW-495A	Inspection for applying damp-proofing coat for the walls of booster station prior to starting backfilling works	10/12/2015	13/12/2015	A
IR-1300006-QBW-496A	Inspection for applying plastering brown coat for internal wall surfaces of electrical control building prior to applying the finish coat	10/12/2015	13/12/2015	A
IR-1300006-QBW-497A	Inspection for applying plastering guide and scratch coat for internal wall surfaces of electrical metering building prior to applying the brown coat	10/12/2015	13/12/2015	A
IR-1300006-QBW-498A	Inspection for electrical pipes installation for the booster station (as shown in the attached drawing)prior to casting concrete	13/12/2015	13/12/2015	C
IR-1300006-QBW-498B	Inspection for electrical pipes installation for the booster station (as shown in the attached drawing)prior to casting concrete	14/12/2015	14/12/2015	A
IR-1300006-QBW-499A	Inspection for excavation ,furnishing ,levelling and compacting basecourse and pea gravel for septic and seepage tanks prior to installation of precast rings	13/12/2015	13/12/2015	A
IR-1300006-QBW-500A	Inspection for the installation of precast rings , filter fabric,coating and gravel materials for septic and seepage tanks	13/12/2015	13/12/2015	A
IR-1300006-QBW-501A	Inspection for delivery of one dismantling joint and 28 gate valves of different size and pressure rating as per the attached MRR-048	13/12/2015	13/12/2015	A

IR-1300006-QBW-502A	Inspection for the delivery of 7 Bermad control valves of different functions and sizes as shown in the attached MRR-049	13/12/2015	14/12/2015	A
IR-1300006-QBW-503A	Inspection for the monthly Environmental checklist for October 2015	13/12/2015	17/12/2015	A
IR-1300006-QBW-504A	Inspection for the monthly Environmental checklist for November 2015	13/12/2015	17/12/2015	A
IR-1300006-QBW-505A	Inspection for 4" steel pipes for booster and surge tank hub drains as per the attached drawing	14/12/2015	14/12/2015	A
IR-1300006-QBW-506A	Inspection of the bottom level (298,85)and location of the metering pad located at the northern side of the balance tank.	14/12/2015	14/12/2015	A
IR-1300006-QBW-507A	Inspection of formwork and steel reinforcement for top parts of transformers pads (TR-01 & TR-02) prior to casting concrete	15/12/2015	15/12/2015	C
IR-1300006-QBW-507B	Inspection of formwork and steel reinforcement for top parts of transformers pads (TR-01 & TR-02) prior to casting concrete	16/12/2015	17/12/2015	C
IR-1300006-QBW-507C	Inspection of formwork and steel reinforcement for top parts of transformers pads (TR-01 & TR-02) prior to casting concrete	17/12/2015	20/12/2015	A
IR-1300006-QBW-508A	Inspection of Qabatiya well pump safty preparations for well pump removal and well development works	16/12/2015	16/12/2015	C
IR-1300006-QBW-508B	Inspection of Qabatiya well pump safty preparations for well pump removal and well development works	17/12/2015	20/12/2015	A
IR-1300006-QBW-509A	Inspection of formwork and steel reinforcement for the foundation of eastern part of fence wall prior to casting concrete	16/12/2015	17/12/2015	C
IR-1300006-QBW-509B	Inspection of formwork and steel reinforcement for the foundation of eastern part of fence wall prior to casting concrete	17/12/2015	20/12/2015	A
IR-1300006-QBW-510A	Inspection of formwork and steel reinforcement for the metering pad (balance tanks inlet)prior to casting concrete	16/12/2015	17/12/2015	C
IR-1300006-QBW-510B	Inspection of formwork and steel reinforcement for the metering pad (balance tanks inlet)prior to casting concrete	17/12/2015	20/12/2015	A
IR-1300006-QBW-511A	Inspection of surface preparation of trench walls of electrical control building prior to starting surface finishing works	16/12/2015	17/12/2015	C
IR-1300006-QBW-511B	Inspection of surface preparation of trench walls of electrical control building prior to starting surface finishing works,Note: this request is covered under IR-13-00006-QBW-523A	23/12/2015	23/12/2015	A
IR-1300006-QBW-512A	Inspection of concrete surface preparation for roof slab of electrical & control building prior to applying screed concrete works	17/12/2015	18/12/2015	C
IR-1300006-QBW-512B	Inspection of concrete surface preparation for roof slab of electrical metering & control buildings prior to applying screed concrete works	21/12/2015	22/12/2015	A
IR-1300006-QBW-513A	Inspection of delivered 18 PVC ball valves as shown in the attached MRR-051	17/12/2015	20/12/2015	A
IR-1300006-QBW-514A	Inspection of delivered flanges gaskets of different sizes as shown in the attached MRR-052	17/12/2015	20/12/2015	A
IR-1300006-QBW-515A	Inspection of delivered components of the chlorination system as shown in the attached MRR-053	17/12/2015	20/12/2015	A
IR-1300006-QBW-516A	Inspection of delivered 11 seleeve couplings as shown in the attached MRR-054	17/12/2015	20/12/2015	A
IR-1300006-QBW-517A	Inspection of delivered 2 ventilation fans as shown in the attached MRR-055	17/12/2015	20/12/2015	C
IR-1300006-QBW-517B	Inspection of delivered 2 ventilation fans as shown in the attached MRR-056	23/12/2015	23/12/2015	A
IR-1300006-QBW-518A	Inspection of delivered 21 ball valves as shown in the attached MRR-056	17/12/2015	20/12/2015	A
IR-1300006-QBW-519A	Inspection for applying plastering brown coat for internal wall surfaces of electrical metering building prior to applying the finish coat	20/12/2015	21/12/2015	A
IR-1300006-QBW-520A	Inspection for LV,MV cables and cable ladders as per the attached list MRR-057	20/12/2015	21/12/2015	C
IR-1300006-QBW-520B	Inspection for LV,MV cables and cable ladders as per the attached list MRR-058	28/12/2015	28/12/2015	A
IR-1300006-QBW-521A	Inspection of finish coat of plastering for interior walls of electrical control building prior to start painting works	21/12/2015	22/12/2015	A
IR-1300006-QBW-522A	Inspection of finish coat of plastering for exterior walls of living quarter and chlorination building prior to start painting works	21/12/2015	22/12/2015	C
IR-1300006-QBW-523A	Inspection of applying FC coating for electrical tranche walls in electrical control building	21/12/2015	22/12/2015	A
IR-1300006-QBW-524A	Inspection of the bottom level and location of surge tank and booster station pad	21/12/2015	22/12/2015	A
IR-1300006-QBW-525A	Inspection for the delivered plumbing fixtures for the Living Quarter as per the attached MRR-042	21/12/2015	22/12/2015	A
IR-1300006-QBW-526A	Inspection for Analyzer Measuring System as per the attached delivery note MRR-058	22/12/2015	22/12/2015	C
IR-1300006-QBW-527A	Inspection of formwork and steel reinforcement of eastern part of fence wall prior to casting concrete (as attached drawing)	22/12/2015	22/12/2015	A
IR-1300006-QBW-528A	Inspection of asphaltting the marked station that needs reinstatement on the conveyance system	22/12/2015	22/12/2015	C
IR-1300006-QBW-528B	Inspection of asphaltting the marked station that needs reinstatement on the conveyance system	23/12/2015	23/12/2015	A
IR-1300006-QBW-529A	Inspection of finish coat of plastering for interior walls of electrical metering building prior to start painting works	23/12/2015	23/12/2015	C
IR-1300006-QBW-529B	Inspection of finish coat of plastering for interior walls of electrical metering building prior to start painting works	28/12/2015	28/12/2015	C
IR-1300006-QBW-529C	Inspection of finish coat of plastering for interior walls of electrical metering building prior to start painting works	29/12/2015	29/12/2015	A
IR-1300006-QBW-530A	Inspection of surface preparation of trench walls of electrical metering building prior to starting surface finishing works	23/12/2015	23/12/2015	A
IR-1300006-QBW-531A	Inspection of floor surface preparation of of electrical metering building prior to starting surface finishing works	23/12/2015	23/12/2015	A
IR-1300006-QBW-532A	Inspection of cleaning and scrubbing for interior walls of electrical control building and electrical metering prior to apply the coat of bondrol	23/12/2015	23/12/2015	C
IR-1300006-QBW-532B	Inspection of cleaning and scrubbing for interior walls of electrical control building and electrical metering prior to apply the coat of bondrol	28/12/2015	28/12/2015	A
IR-1300006-QBW-533A	Inspection of formwork and reinforcement of booster station slab on grad and spreading of vapor barrier prior to casting concrete	23/12/2015	24/12/2015	C
IR-1300006-QBW-533B	Inspection of formwork and reinforcement of booster station slab on grad and spreading of vapor barrier prior to casting concrete	28/12/2015	28/12/2015	A
IR-1300006-QBW-534A	Inspection for electrical and instrumentation installation in the concrete pads of the booster pump and surge tank as per the attached drawing	24/12/2015	24/12/2015	A
IR-1300006-QBW-535A	Inspection of delivered ABB electromagnetic flow meters as per the attached delivery ticket.MRR-059	24/12/2015	27/12/2015	A
IR-1300006-QBW-536A	Inspection for scupper drains and mechanical pipes in the concrete pads of booster pump and surge tank as per the attached drawings	24/12/2015	24/12/2015	C
IR-1300006-QBW-536B	Inspection for scupper drains and mechanical pipes in the concrete pads of booster pump and surge tank as per the attached drawings	28/12/2015	28/12/2015	A
IR-1300006-QBW-537A	Inspection for the delivered 4 level switches and 4 pressure switches as shown in the attached MRR-060.	27/12/2015	27/12/2015	A
IR-1300006-QBW-538A	Inspection for the delivered two enclosures of electrical panels for living quarter and electrical control building as show in the attached MRR-061	27/12/2015	28/12/2015	A
IR-1300006-QBW-539A	Inspection of surface finishing inside electrical manholes (MHP-01,04 & 06)	27/12/2015	28/12/2015	A
IR-1300006-QBW-540A	Inspection for the installation of cable ladders inside electrical control building and electrical metering building	27/12/2015	28/12/2015	A
IR-1300006-QBW-541A	Inspection for the delivered 18 AC split units as shown in the attached MRR-062.	28/12/2015	28/12/2015	C
IR-1300006-QBW-542A	Inspection of formwork and reinforcement for remaining part of retaining wall of western part and remaining part from fence wall	28/12/2015	28/12/2015	A
IR-1300006-QBW-543A	Inspection of surface preparations of screed concrete at the roof slabs of electrical control building prior to starting insulation works	28/12/2015	29/12/2015	A
IR-1300006-QBW-544A	Inspection of surface finishing inside electrical manholes (MHP,02& 03)	29/12/2015	29/12/2015	A



IR-1300006-QBW-545A	Inspection of excavation to the reached substrata level (297.70) and base course layer under the well pad as per the attached drawing	29/12/2015	29/12/2015	A
IR-1300006-QBW-546A	Inspection of cleaning and scrubbing for interior walls of electrical metering building prior to apply the coat of bondrol	29/12/2015	29/12/2015	A
IR-1300006-QBW-547A	Inspection for the installation of galvanized steel door frames for the Electrical control Building as per the attached drawing (Three door frames).	30/12/2015	30/12/2015	A
IR-1300006-QBW-548A	Inspection for the delivered three steel doors for the Electrical Control Building as shown in the attached MRR-063	30/12/2015	30/12/2015	A
IR-1300006-QBW-549A	Inspection for the delivered electrical poles,lights and panels as shown in the attached MRR-064	30/12/2015	Retracted 31/12/ 2015	
IR-1300006-QBW-550A	Inspection of formwork and steel reinforcement for the well head pad prior to casting concrete.	30/12/2015	31/12/2015	A
IR-1300006-QBW-551A	Inspection of first epoxy coat inside the western compartment of balance tank prior to applying the second coat	30/12/2015	03/01/2016	C
IR-1300006-QBW-552A	Inspection of applying and compacting base coarse layer beneath rig pad at finish level of 299.05	30/12/2015	03/01/2016	C
IR-1300006-QBW-553A	Inspection of surface preparation of internal surfaces of electrical metering building using putty prior to applying finish painting coat	30/12/2015	03/01/2016	A
IR-1300006-QBW-554A	Inspection of surface preparation of internal surfaces of electrical control building using putty prior to applying finish painting coat	30/12/2015	31/12/2015	A

# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix Equipment List**

USAID Contract No.: AID-294-I-00-12-00001			
Task Order No.: AID-294-TO-13-00006			
Qabatiya Well Pump Station And Conveyqance System			
Equipment List-November 2015			
Backhoe	01/12/2015	JCB	2011
Bobcat/Idle	01/12/2015	CAT	2013
Welding machine	01/12/2015		
Backhoe	02/12/2015	JCB	2011
Bobcat/Idle	02/12/2015	CAT	2013
Welding machine	02/12/2015		
Concrete vibrator	02/12/2015		
Backhoe	03/12/2015	JCB	2011
Bobcat/Idle	03/12/2015	CAT	2013
Welding machine	03/12/2015		
Backhoe/Idle	04/12/2015	JCB	2011
Bobcat/Idle	04/12/2015	CAT	2013
Backhoe	05/12/2015	JCB	2011
Bobcat/Idle	05/12/2015	CAT	2013
Welding machine	05/12/2015		
Backhoe	06/12/2015	JCB	2011
Bobcat/Idle	06/12/2015	CAT	2013
Welding machine	06/12/2015		
Backhoe	07/12/2015	JCB	2011
Bobcat/Idle	07/12/2015	CAT	2013
JCB Backhoe	08/12/2015	JCB	2011
Bobcat/Idle	08/12/2015	CAT	2013
Welding machine	08/12/2015		
Mobile crane	08/12/2015	DAF	1996
Concrete vibrator	08/12/2015		
Backhoe	09/12/2015	JCB	2011
Bobcat	09/12/2015	CAT	2013
Welding machine	09/12/2015		
Roller	09/12/2015		
Backhoe	10/12/2015	JCB	2011
Bobcat	10/12/2015	CAT	2013
Roller	10/12/2015		
Backhoe/Idle	11/12/2015	JCB	2011
Bobcat/Idle	11/12/2015	CAT	2013
Roller/Idle	11/12/2015		
Backhoe	12/12/2015	JCB	2011
Bobcat	12/12/2015	CAT	2013
Roller/Idle	12/12/2015		
Backhoe	13/12/2015	JCB	2011
Bobcat/Idle	13/12/2015	CAT	2013
Roller/Idle	13/12/2015		
Backhoe/Idle	14/12/2015	JCB	2011
Bobcat	14/12/2015	CAT	2013
Roller	14/12/2015		
Mobile crane	14/12/2015	DAF	1996
Backhoe/Idle	15/12/2015	JCB	2011
Bobcat/Idle	15/12/2015	CAT	2013
Roller/Idle	15/12/2015		
Mobile crane	15/12/2015	DAF	1996
Welding machine	15/12/2015		
Rig	15/12/2015	Gardner Denver	1984
Backhoe/Idle	16/12/2015	JCB	2011
Bobcat/Idle	16/12/2015	CAT	2013
Roller/Idle	16/12/2015		
Mobile crane	16/12/2015	DAF	1996
Welding machine	16/12/2015		
Rig	16/12/2015	Gardner Denver	1978
Backhoe/Idle	17/12/2015	JCB	2011
Bobcat/Idle	17/12/2015	CAT	2013
Roller/Idle	17/12/2015		
Mobile crane	17/12/2015	DAF	1996
Welding machine	17/12/2015		
Rig	17/12/2015	Gardner Denver	1984

Backhoe/Idle	18/12/2015	JCB	2011
Bobcat/Idle	18/12/2015	CAT	2013
Roller/Idle	18/12/2015		
Mobile crane/Idle	18/12/2015	DAF	1996
Welding machine	18/12/2015		
Rig	18/12/2015	Gardner Denver	1984
Backhoe/Idle	19/12/2015	JCB	2011
Bobcat	19/12/2015	CAT	2013
Roller/Idle	19/12/2015		
Mobile crane/Idle	19/12/2015	DAF	1996
Welding machine	19/12/2015		
Rig	19/12/2015	Gardner Denver	1984
Backhoe/Idle	20/12/2015	JCB	2011
Bobcat	20/12/2015	CAT	2013
Roller/Idle	20/12/2015		
Rig	20/12/2015	Gardner Denver	1984
Backhoe/Idle	21/12/2015	JCB	2011
Bobcat	21/12/2015	CAT	2013
Roller	21/12/2015		
Rig	21/12/2015	Gardner Denver	1984
Backhoe/Idle	22/12/2015	JCB	2011
Bobcat/Idle	22/12/2015	CAT	2013
Roller	22/12/2015		
Rig	22/12/2015	Gardner Denver	1984
Air compressor	22/12/2015		
Backhoe/Idle	23/12/2015	JCB	2011
Bobcat/Idle	23/12/2015	CAT	2013
Roller/Idle	23/12/2015		
Rig	23/12/2015	Gardner Denver	1984
Air compressor	23/12/2015		
Backhoe/Idle	24/12/2015	JCB	2011
Bobcat/Idle	24/12/2015	CAT	2013
Roller	24/12/2015		
Rig	24/12/2015	Gardner Denver	1984
Air compressor	24/12/2015		
Backhoe/Idle	25/12/2015	JCB	2011
Bobcat/Idle	25/12/2015	CAT	2013
Roller/Idle	25/12/2015		
Rig	25/12/2015	Gardner Denver	1984
Air compressor	25/12/2015		
Foam tank	25/12/2015		
Backhoe/Idle	26/12/2015	JCB	2011
Bobcat/Idle	26/12/2015	CAT	2013
Roller/Idle	26/12/2015		
Rig	26/12/2015	Gardner Denver	1984
Air compressor/Idle	26/12/2015		
Foam tank/Idle	26/12/2015		
Concrete vibrator	26/12/2015		
Backhoe/Idle	27/12/2015	JCB	2011
Bobcat/Idle	27/12/2015	CAT	2013
Roller/Idle	27/12/2015		
Rig	27/12/2015	Gardner Denver	1984
Air compressor	27/12/2015		
Foam tank	27/12/2015		
Backhoe/Idle	28/12/2015	JCB	2011
Bobcat/Idle	28/12/2015	CAT	2013
Roller/Idle	28/12/2015		
Rig	28/12/2015	Gardner Denver	1984
Backhoe	29/12/2015	JCB	2011
Bobcat/Idle	29/12/2015	CAT	2013
Roller/Idle	29/12/2015		
Rig/Idle	29/12/2015	Gardner Denver	1984
Backhoe	30/12/2015		
Bobcat/Idle	30/12/2015	JCB	2011
Roller/Idle	30/12/2015	CAT	2013
Rig/Idle	30/12/2015	Gardner Denver	1984
Mobile crane	30/12/2015	DAF	1996
Backhoe	31/12/2015	JCB	2011
Bobcat/Idle	31/12/2015	CAT	2013
Roller/Idle	31/12/2015		
Rig/Idle	31/12/2015	Gardner Denver	1984
Concrete vibrator	31/12/2015		

A blue L-shaped line is positioned in the top-left corner of the page. It consists of a vertical line extending downwards and a horizontal line extending to the right, forming a corner bracket.

# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix**

### **Risks and Mitigation Measures**

## Task Order Risk Register

Number	Category	Risk Name	Description	Pre-Mitigation Probability	Pre-Mitigation Cost Impact	Risk Matrix	Mitigation	Risk Owner	Description	Pre-Mitigation Probability	Risk Matrix																																																																																						
1	Scope and Type(s) of Work	Protection of existing well site utilities during site construction	The existing utilities at the Qabatiya Well site might be damaged during construction activities.	Unlikely	Marginal	<table><tr><td rowspan="6">Impact</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td>X</td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td></td><td colspan="5">Probability</td></tr></table>	Impact	5						4						3						2		X				1							1	2	3	4	5		Probability					Mitigation – Before the start of construction activities, the subcontractor will identify all existing utilities and review As Built Drawings to avoid damaging existing utilities. Existing utilities that are not part of construction activities will be identified and protected to avoid damage. Also, test pits will be performed prior to any excavation activities.	CDM Smith	Very Unlikely	Marginal	<table><tr><td rowspan="6">Impact</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>X</td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td></td><td colspan="5">Probability</td></tr></table>	Impact	5						4						3						2	X					1							1	2	3	4	5		Probability				
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2	Scope and Type(s) of Work	Removal of fallen submersible pump	As per revised BOQ, the fallen submersible pump has to be removed from the well	Critical	Critical	<table><tr><td rowspan="6">Impact</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td>X</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td></td><td colspan="5">Probability</td></tr></table>	Impact	5						4			X			3						2						1							1	2	3	4	5		Probability					Mitigation – CDM Smith will search for the fallen pump as per specifications and get more further instructions for the next steps from Engineer.	CDM Smith	Critical	Critical	<table><tr><td rowspan="6">Impact</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td>X</td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>X</td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td></td><td colspan="5">Probability</td></tr></table>	Impact	5						4				X		3						2	X					1							1	2	3	4	5		Probability				
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3	Scope and Type(s) of Work	Material Procurement	Long lead items that will be procured abroad and delivered to QBW site	Unlikely	Marginal	<table><tr><td rowspan="6">Impact</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td>X</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td></td><td colspan="5">Probability</td></tr></table>	Impact	5						4						3			X			2						1							1	2	3	4	5		Probability					Mitigation – CDM Smith and at earlier stages started negotiation with proposed qualified vendors for all equipment and/or material that are not available in the local market. Purchase orders for some material had been issued, others are in progress.	CDM Smith	Unlikely	Marginal	<table><tr><td rowspan="6">Impact</td><td>5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td>X</td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td></td><td colspan="5">Probability</td></tr></table>	Impact	5						4						3				X		2						1							1	2	3	4	5		Probability				
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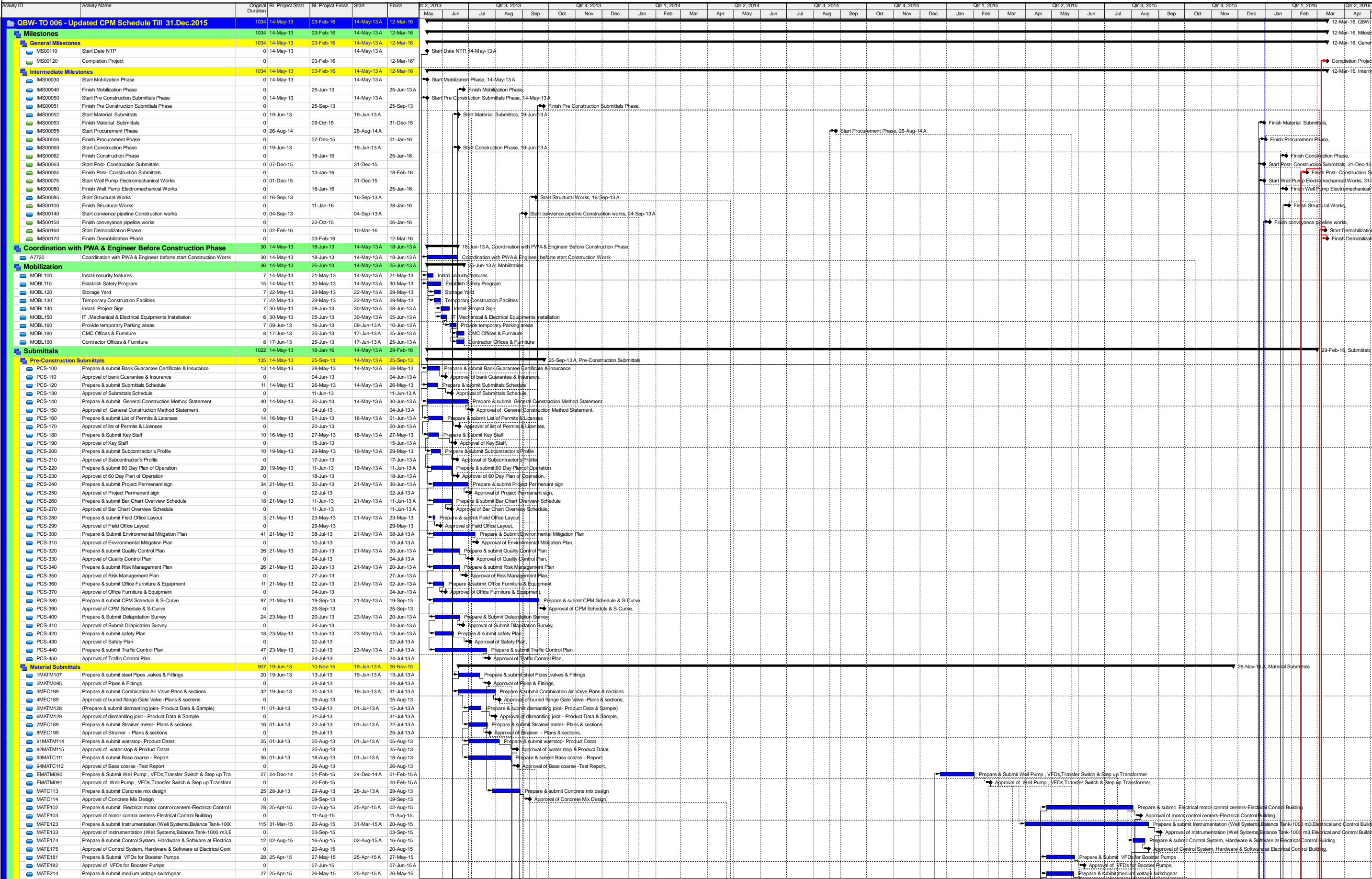


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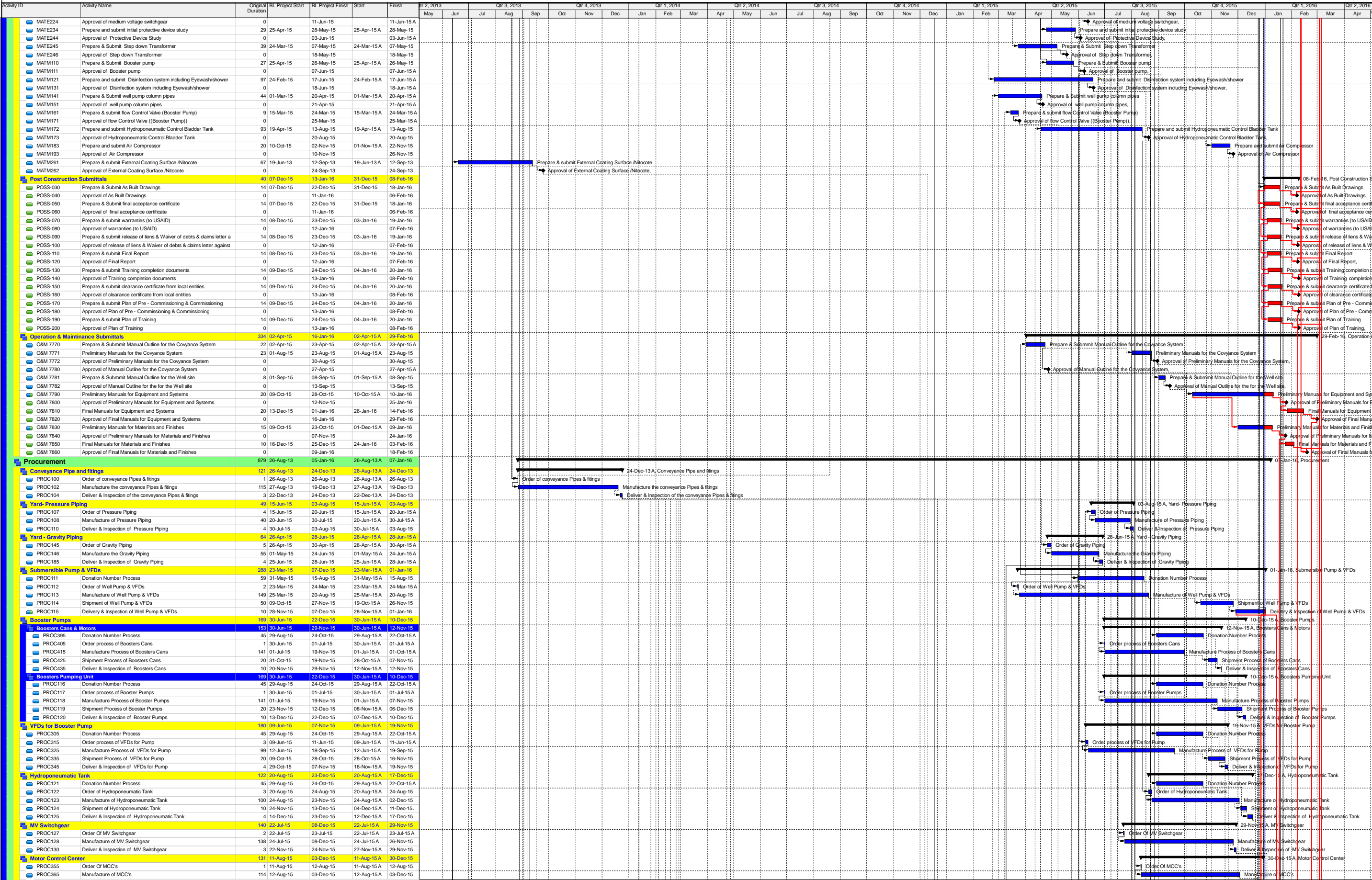
# **Task Order 00006 - Qabatiya Well, Pump Station and Conveyance**

## **Appendix**

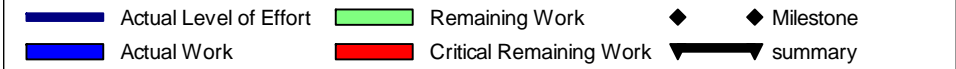
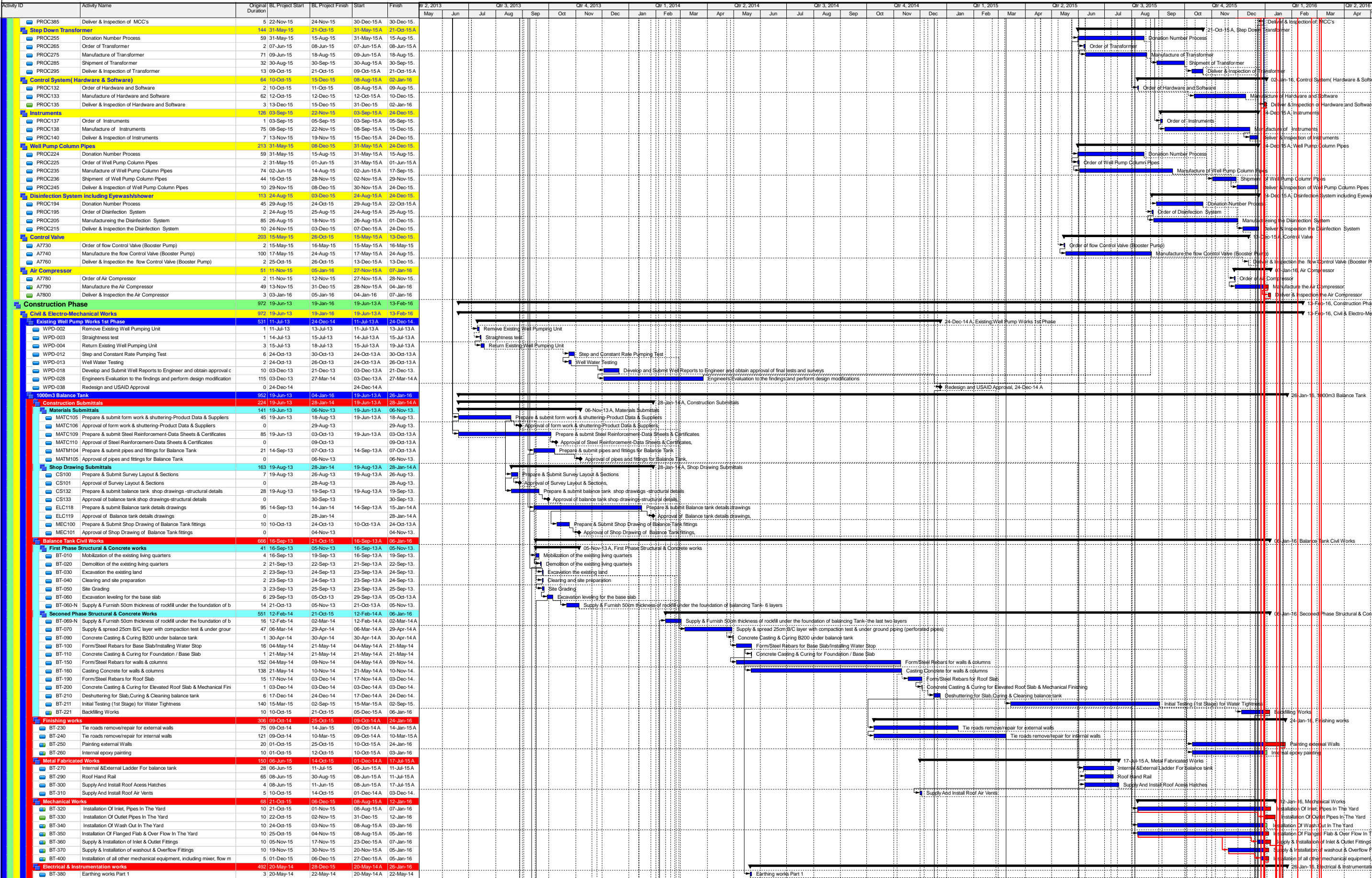
### **Updated Schedule**

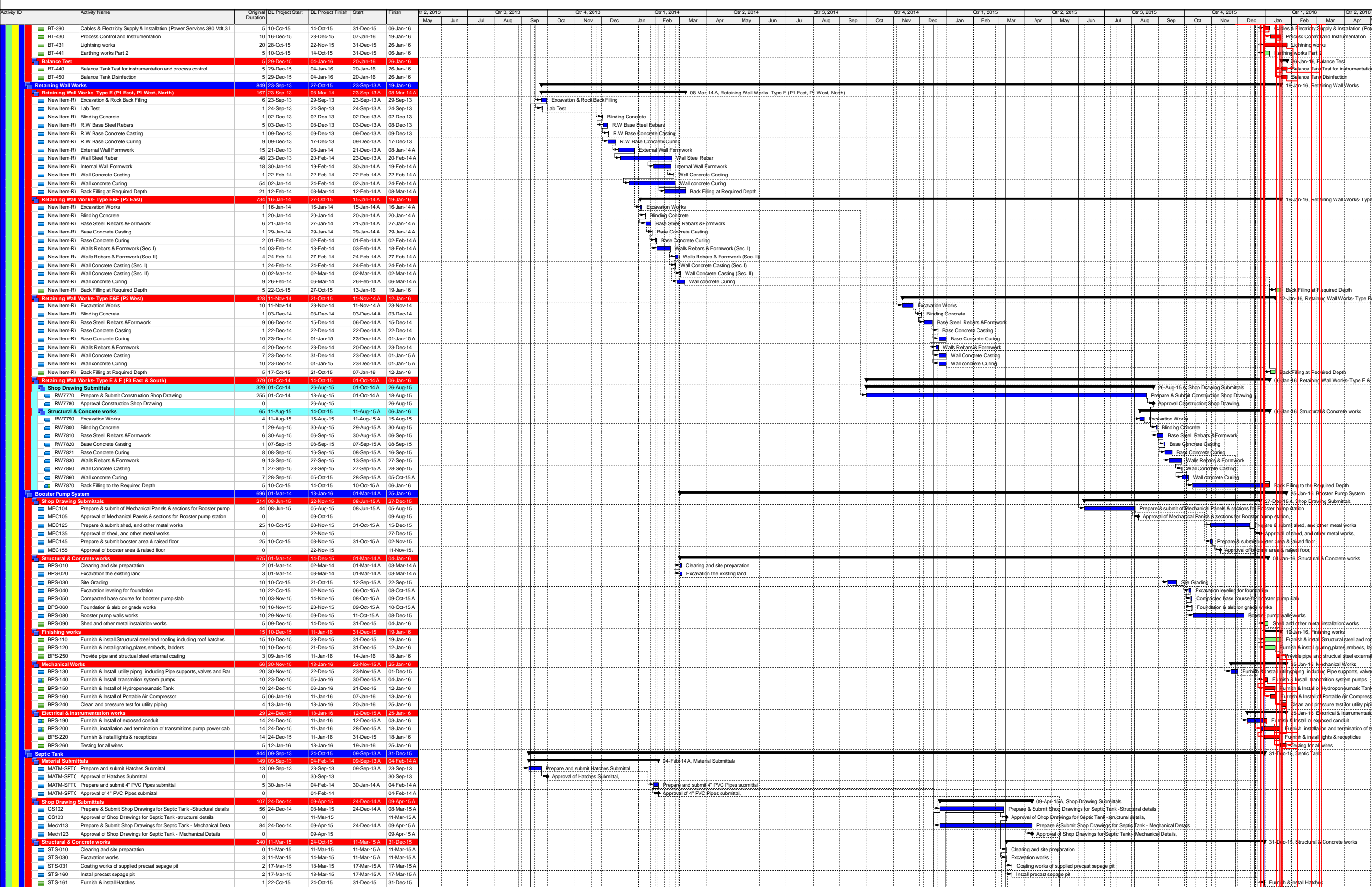


Actual Level of Effort Remaining Work  
Actual Work Critical Remaining Work  
Milestone summary

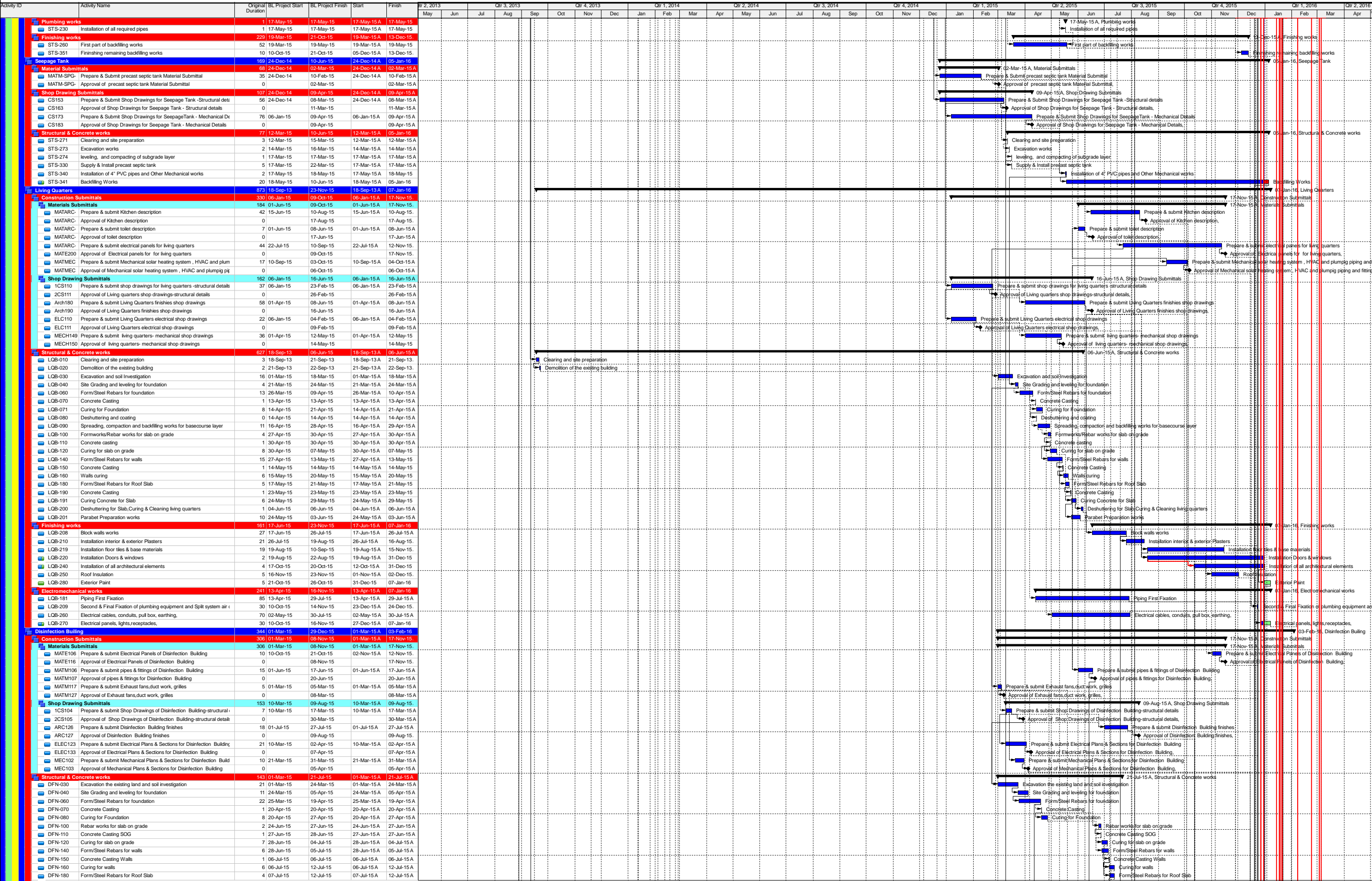




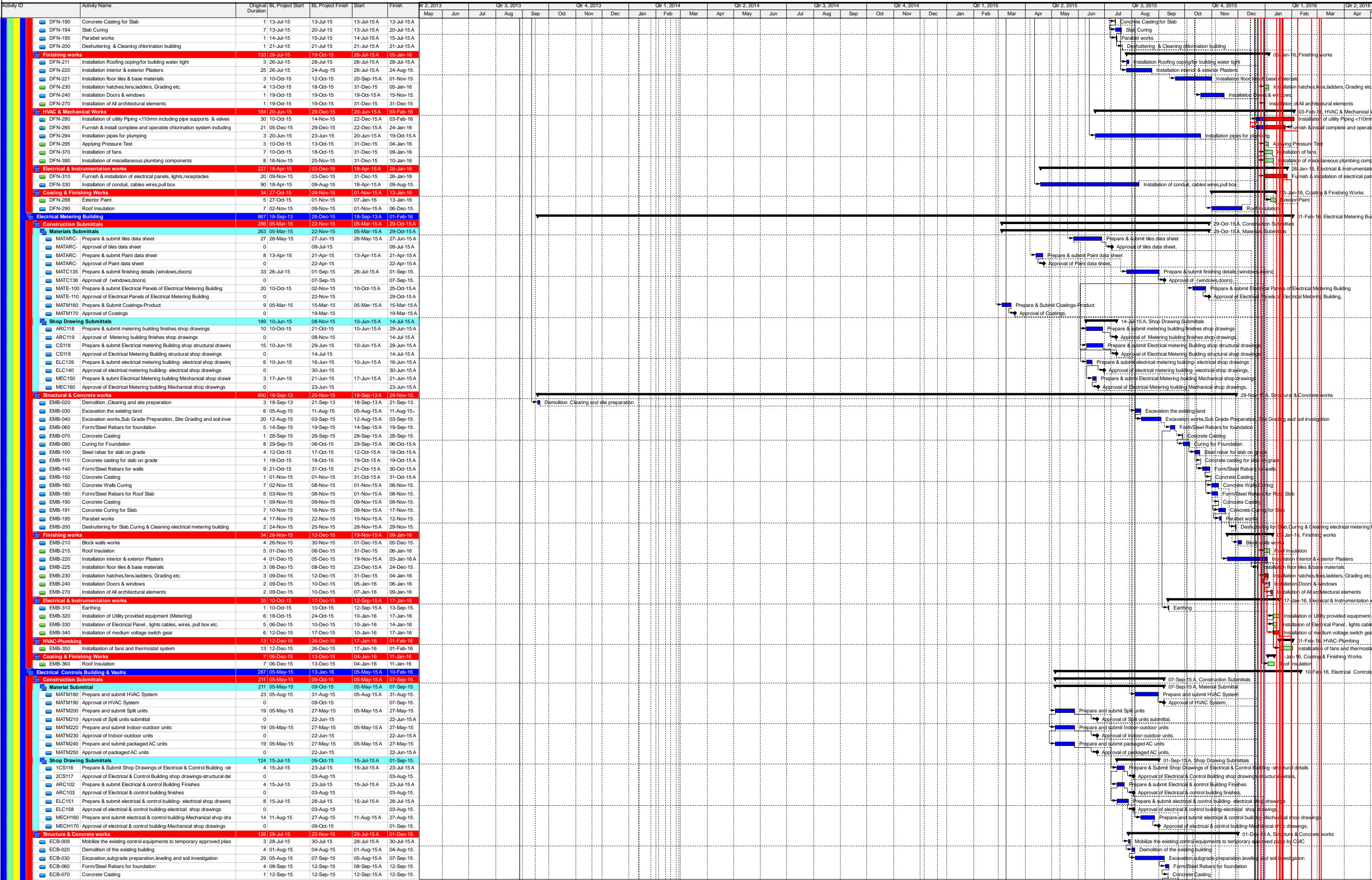




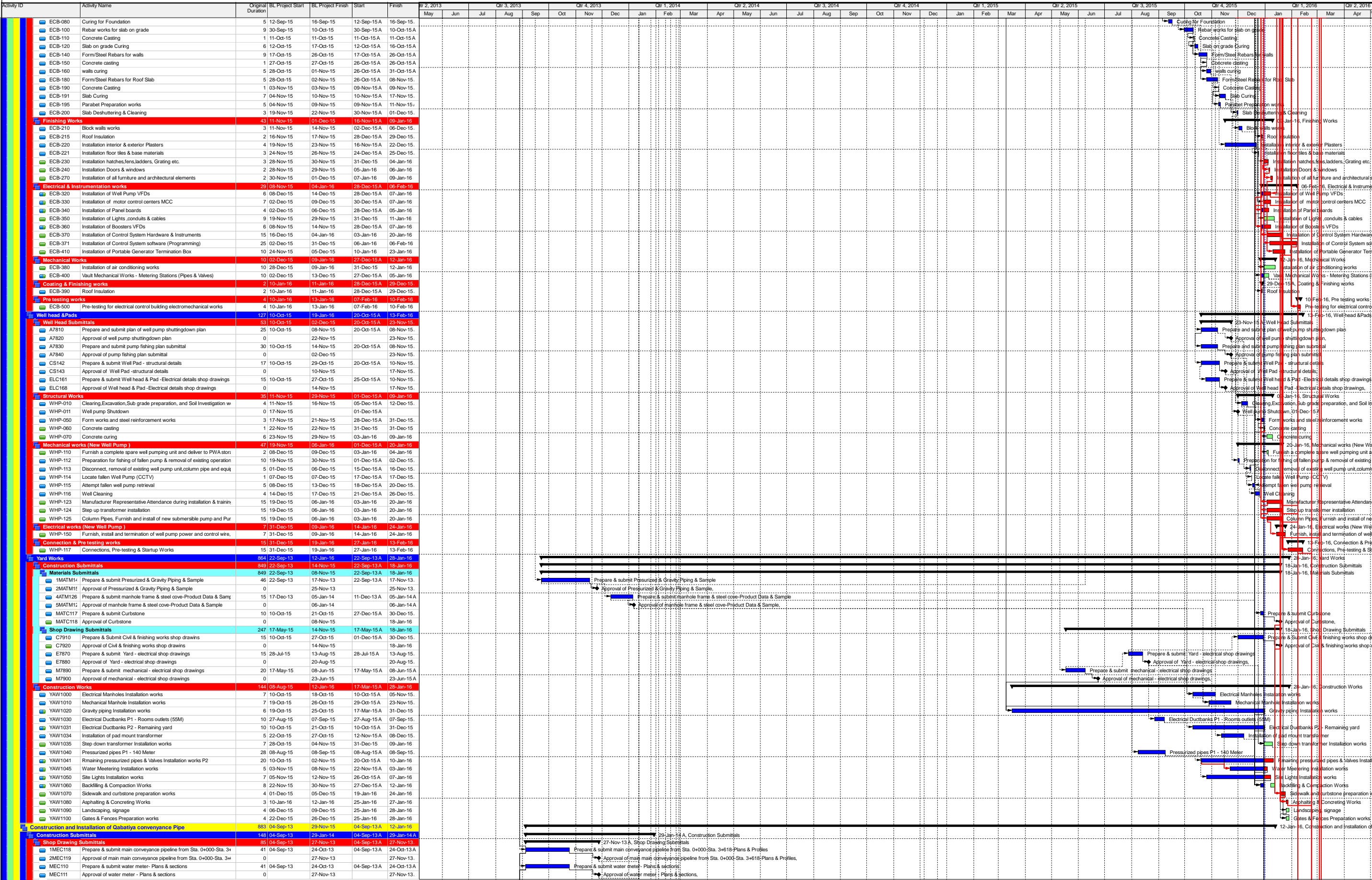






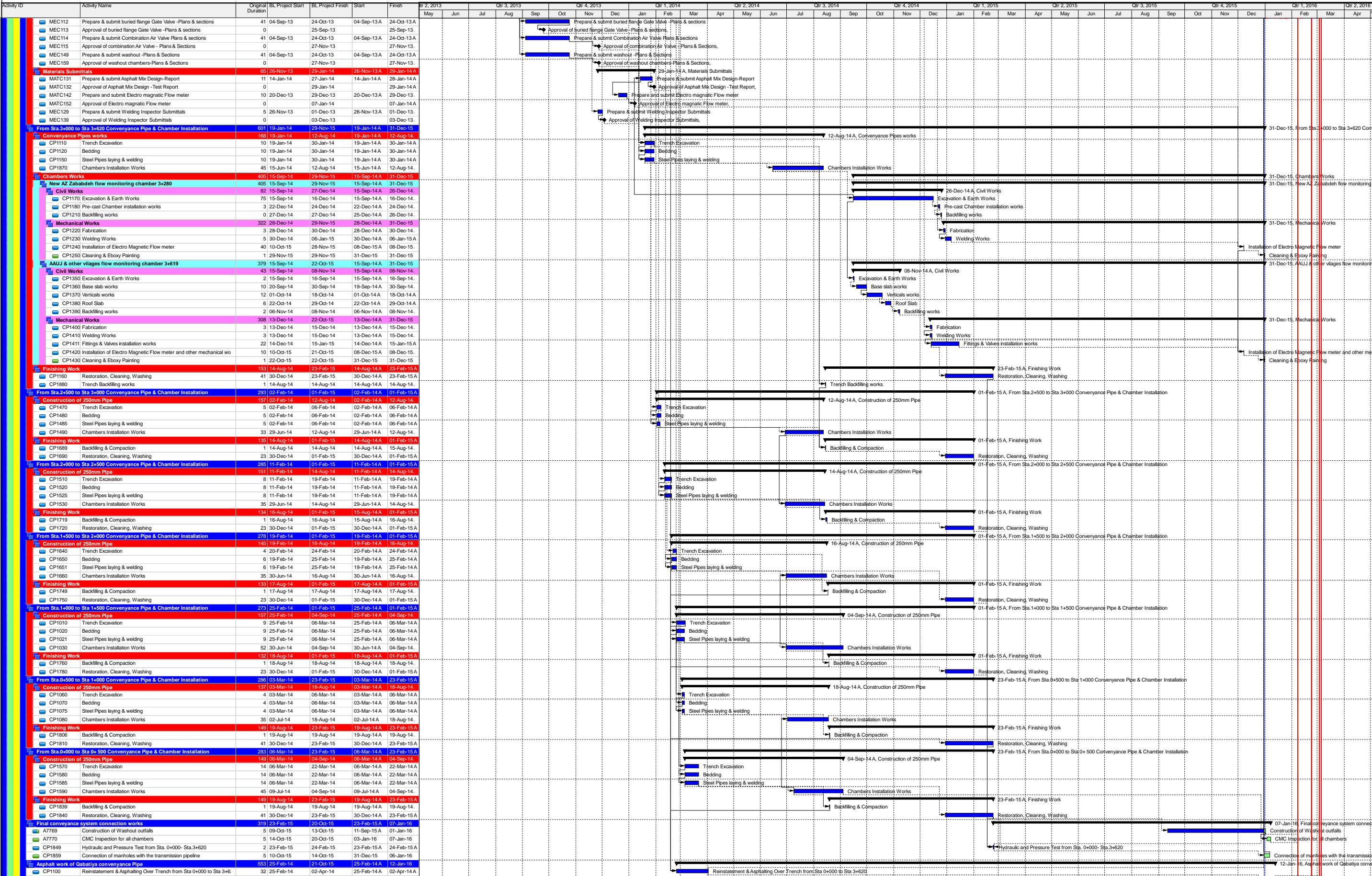


Actual Level of Effort Remaining Work Milestone  
Actual Work Critical Remaining Work summary



Actual Level of Effort Remaining Work  
Actual Work Critical Remaining Work  
Milestone  
summary





Actual Level of Effort

Remaining Work

Milestone

Actual Work

Critical Remaining Work

summary

